EXISTING CONDITION
OFFSITE
HYDROLOGY REPORT
FOR
THE GROUND WATER RECHARGE FACILITY
FOR
WETLANDS OF AVONDALE

Submitted to
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June 1998

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Executive Summary

PROJECT DESCRIPTION

The Wetlands of Avondale is a unique groundwater recharge system. The project will convey Central Arizona Project (CAP) water to a residential development site containing Wetland treatment cells. A water transfer pipe will transport the Wetland treated water to the Recharge Facility. The water then filters through the basin bottoms to replenish the aquifer. The need for this study was identified in two meetings on September 19, and November 2, 1996 involving the City, County and design consultants. A review meeting was held on March 13, 1997 with city, county, and design consultants.

PURPOSE

The purpose of this study is to determine the existing storm flow rates and required storage volumes that impact the proposed Recharge Facility area within the Wetlands of Avondale Project. The data generated in this report will be used to size the drainage channel along the east and south sides of the recharge basins. Some of these flows ultimately discharge into the area south of New McDowell and into the Agua Fria River. This report also establishes the inundation area east of the Agua Fria River. This study addresses the concerns indicated by the Flood Control District of Maricopa County at the March 13, 1997 meeting.

WATERSHED DESCRIPTION

The study watershed is located in the City of Avondale in Maricopa County, Arizona. This area is tributary to the Agua Fria River through the Agua Fria overflow area between McDowell Road and Interstate 10. The watershed is bounded by the Agua Fria on the west side and stretches to the north east of the Roosevelt canal on the east including portions of Sections 25, 36 in Township 2 North, Range 1 West and Sections 29, 30, 31, 32, 33 in Township 2 North, Range 1 East. The total drainage area is 3.49 square miles and most of the existing land use in the watershed is agricultural. The watershed is developing rapidly and the available development plans were included in this study as the existing condition. The enclosed hydrology map shows the drainage area.

STUDY METHODOLOGY

The study used the hydrologic methodologies outlined in the Drainage Design Manual for Maricopa County. This method prepares input files for the U.S. Army Corps of Engineers HEC-1 hydrology program. The final flow rates for the design are generated by HEC-1.

RESULTS

The tributary flows to the Phase I peripheral channel are 117 cfs in a 10 year storm and 348 cfs for a 100 year storm. These flows are delivered to the peripheral channel via overland flow and the storm water culverts under the transfer pipe to the north. The water is then conveyed by the channel to Park Road (Old McDowell Road) where it terminates and overflows to the south. The storm flows spread out over the Phase 2 area which is inundated to an elevation of 978.32 for a 10 year storm and 979.99 for a 100 year storm. The water then flows out the existing 60" culverts under McDowell Road. The Phase 2 area will be designated as a flood detention area until the Phase 2 recharge basins are constructed.

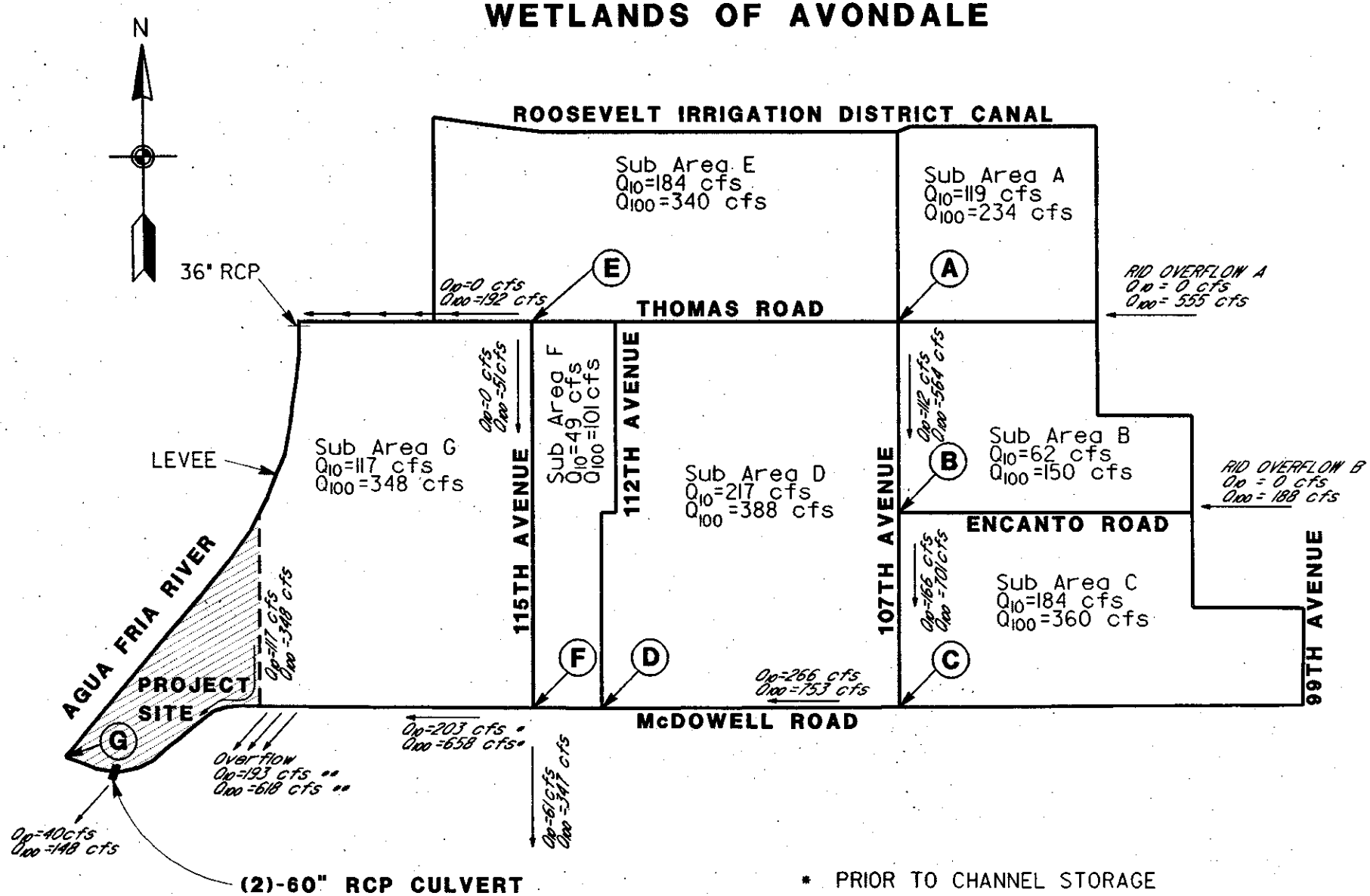
When the Agua Fria is at flood elevation, the flap gates on the McDowell Road culverts close and the water is ponded in the Phase 2 area. The storm frequency of the watershed that is contemporaneous to the Agua Fria at flood elevation is equivalent to a 2 year storm. The 2 year flow tributary to Phase 1 is 23 cfs with a volume of 4.5 AF. This water ponds to an elevation of 976.55 feet.

Compared to what?

For Phase 2 there is 117 cfs generated in a 10 year storm and 348 cfs generated for a 100 year storm tributary to the Recharge Facility project. This water will be conveyed to the existing 60" drains under McDowell Road whose capacity is 345 cfs. The channel routing reduces the Q100 to 148 cfs out the culverts. Onsite maximum storage for Phase 2 is 25.1 AF. When the Agua Fria is at flood elevation, the 2 year flow tributary to Phase 2 is 23 cfs with a volume of 4.5 AF. These flows can be stored in the peripheral channel as currently designed.

There is 193 cfs generated in a 10 year storm and 618 cfs generated for a 100 year storm tributary to Phase 3 of the Recharge Facility project. This water is conveyed westerly along McDowell Road to the reverse curve where it breaks southerly into the Agua Fria recharge area. Historically these flows break southerly regardless of the stage of the Agua Fria River.

SUMMARY
SUB BASIN FLOW RATES
GROUND WATER RECHARGE FACILITY WATERSHED
FOR
WETLANDS OF AVONDALE



* PRIOR TO CHANNEL STORAGE
** POST CHANNEL STORAGE

EXISTING CONDITION OFFSITE HYDROLOGY REPORT FOR THE GROUND WATER RECHARGE FACILITY FOR WETLANDS OF AVONDALE

SECTION 1 - INTRODUCTION

1.1 BACKGROUND

The Wetlands of Avondale is a unique groundwater recharge system. The project will convey Central Arizona Project (CAP) water to a residential development site containing Wetland treatment cells. A water transfer pipe will transport the Wetlands treated water to the ground water Recharge Facility. The water then filters through the basin bottoms to replenish the aquifer. The need for this study was identified in two meetings on September 19, and November 2, 1996 involving the City, County and design consultants. March 13, 1997 meeting to address FCD concerns.

1.2 PROJECT LOCATION

The Recharge Facility will be constructed in the City of Avondale which is in Maricopa County, Arizona . The project is adjacent to the east levee of the Agua Fria River and will be constructed in three phases. The locations of these phases are as follows.

1. Phase 1 with an area of 47 acres will be north of the old (straight) alignment of McDowell Road.

2. Phase 2 with an area of 20 acres will be between the old and current alignment of McDowell Road.

3. Phase 3 with an approximate area of 25 acres will be constructed south of McDowell Road and north of the existing reinforced concrete channel along the north side of Interstate 10.

The project will have a peripheral channel running along the eastern border of Phase I and along the east and south side of Phase 2. The purpose of this channel is to protect the project from tributary storm flows from the watershed to the north and east of Phases 1 and 2 of the site. Plate 1 shows a project location map.

PROJECT LOCATION MAP
GROUND WATER RECHARGE BASINS
FOR
WETLANDS OF AVONDALE

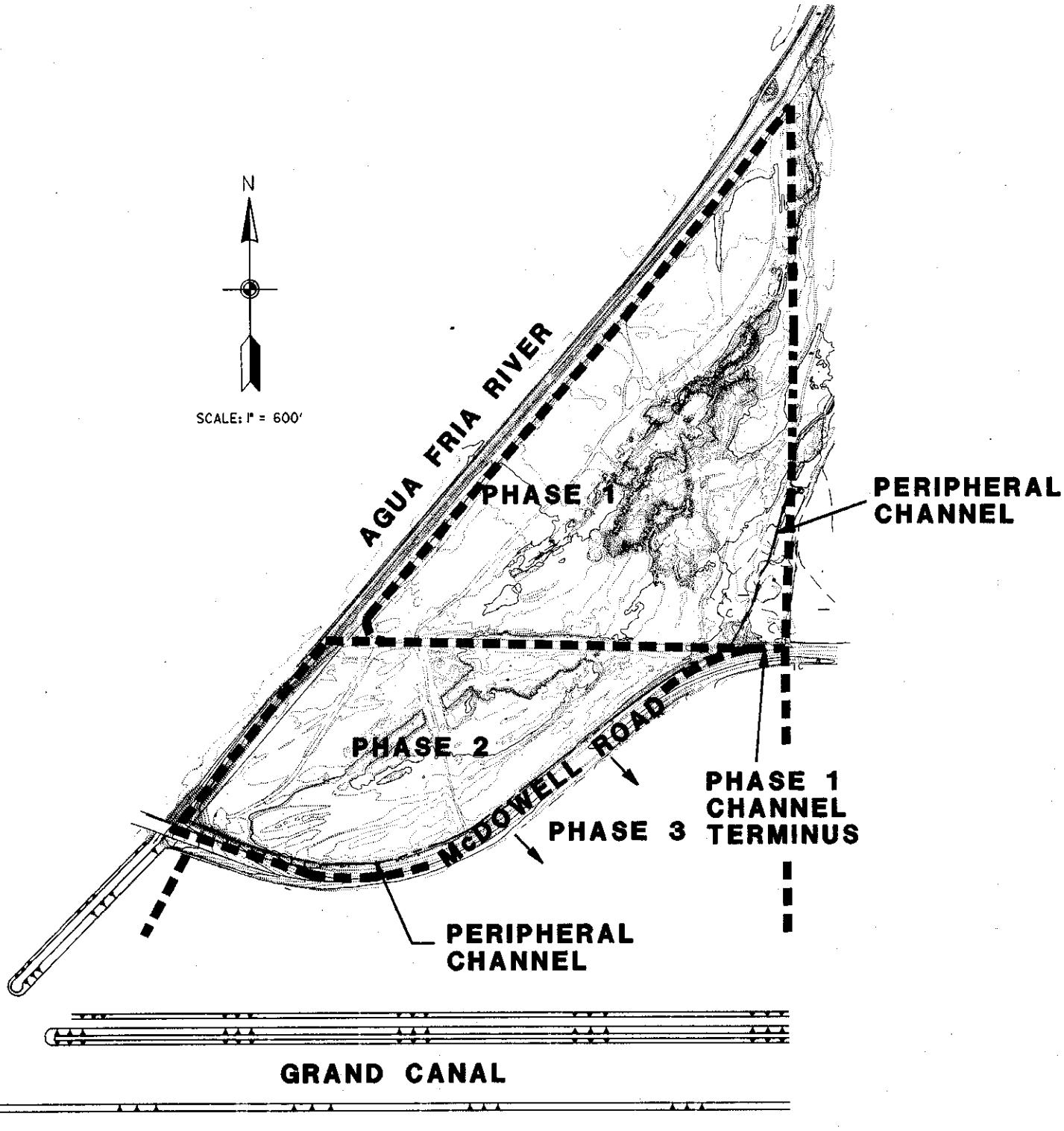
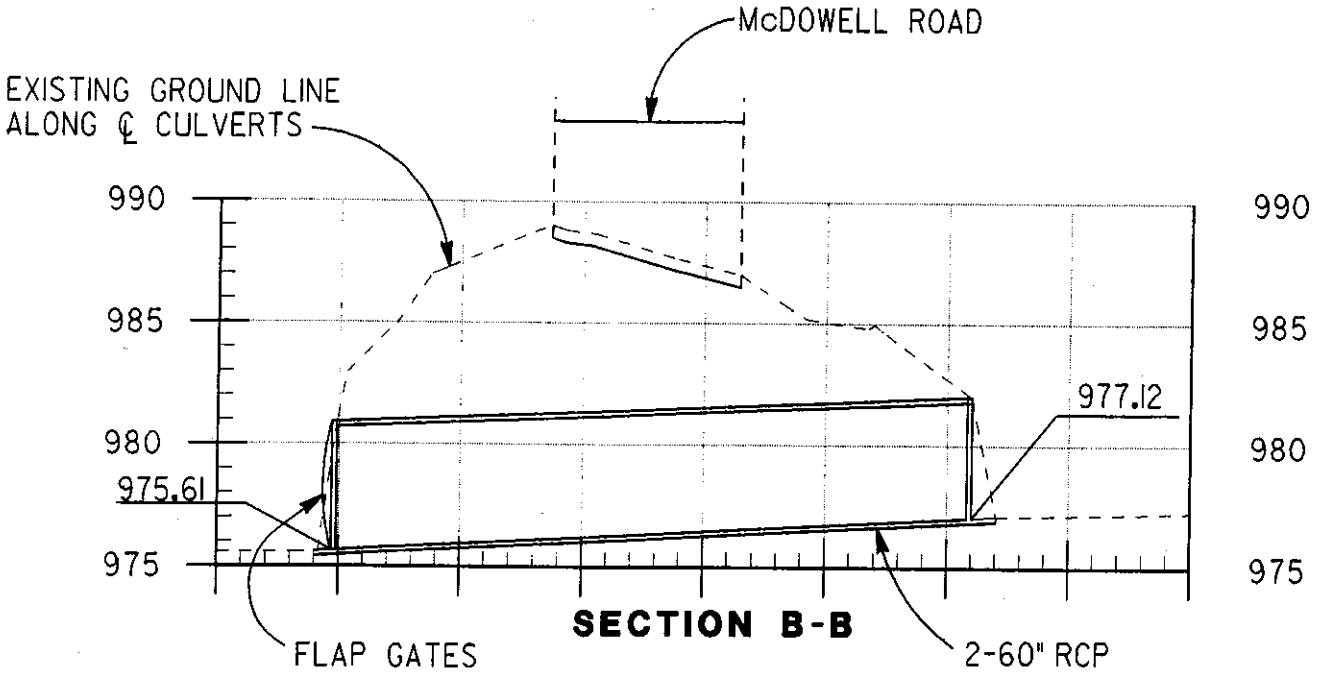


PLATE 1

PHASE 1
McDOWELL ROAD CULVERTS
GROUND WATER RECHARGE BASINS
FOR
WETLANDS OF AVONDALE



SECTION B-B

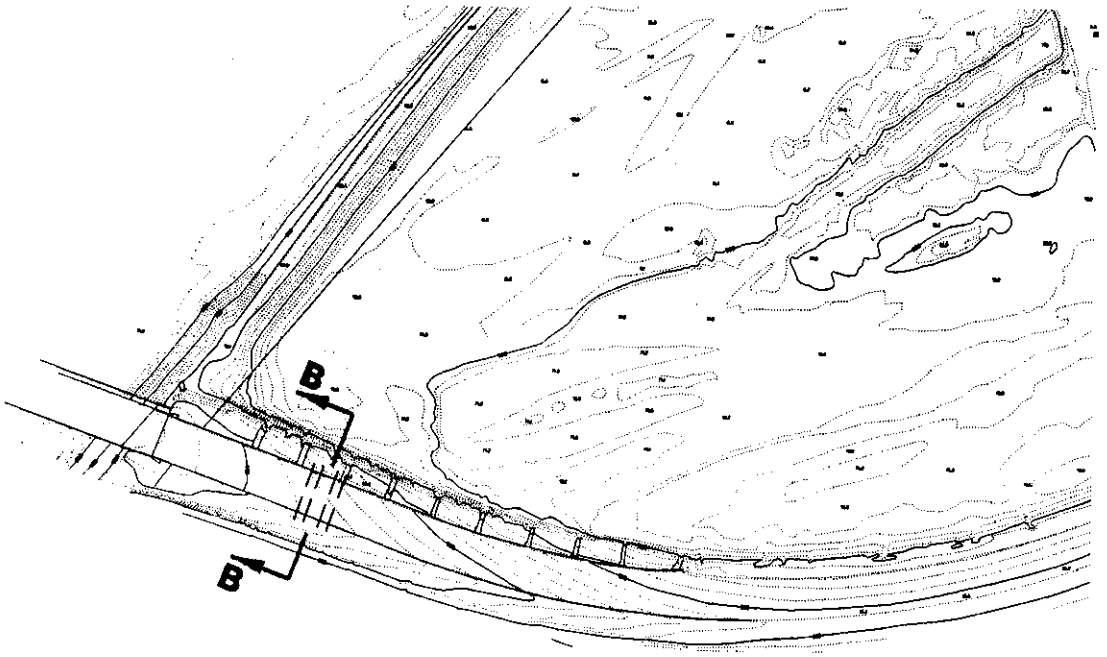


PLATE 1B

1.3 PURPOSE OF THIS STUDY

The purpose of this study is to perform an existing condition hydrologic investigation of the offsite areas which contribute run off to the project. The flow rates developed by this study will be used to design the peripheral channel protecting the site. This channel conveys the flows southerly and then westerly to the existing culverts under McDowell Road.

The flows along McDowell Road generated by this study will also be used to evaluate the drainage facilities necessary to protect Phase 3 from flooding.

1.3.1 Previous Studies

There are two previous studies of the watershed. The first was authored by Simons, Li & Associates dated January 30, 1985 and the second by Jerry Jones Associates in November 1988.

The Simons, Li report addressed the drainage area as part of the larger Agua Fria Flood Control Project and did not develop peak flows from the watershed. The Jerry Jones report develops a peak flow for the drainage area. However, the Jerry Jones Report was not detailed and did not consider the impact of the Roosevelt Irrigation Ditch. The full titles of these reports are listed in the References Section.

SECTION 2 - WATERSHED CHARACTERISTICS

2.1 WATERSHED DESCRIPTION

The watershed is located in the Agua Fria River drainage basin immediately north of Interstate 10 Freeway. The watershed is bounded on the west by the Agua Fria River, on the south by McDowell Road and on the north and east by the Roosevelt Irrigation Ditch. For a more detailed discussion of the irrigation ditch see Section 4.1.

The drainage area includes portions of Sections 25, 36 in Township 2 North, Range 1 West and Sections 29, 30, 31, 32, 33 in Township 2 North, Range 1 East. The enclosed hydrology map shows the drainage area.

2.1.1 General Topography

The topography of the watershed is extremely flat with a total fall of 37 feet in 22,000 ft. The general slope of the land is from northeast to southwest with the major axis of fall in the east west direction.

The Agua Fria River is in a perched condition along the west boundary of the watershed with the flood flow elevations in the river generally higher than the adjacent ground surface. An exception to this perched condition lies at the southwest corner of the watershed. Here, the ground along the south side of McDowell Road prevents flows from the Agua Fria overflow area from entering the street right-of-way.

2.1.2 Flow Patterns

The major conveyances in the watershed are the north south and east west arterial streets that cross the watershed at one half mile intervals. This cross pattern has the effect of lengthening the flow paths through the watershed. The north-south roads have an extremely flat slope with most of the fall occurring along the east-west streets.

The roads are often paralleled by SRP or private irrigation ditches of varying size. These ditches convey irrigation flows to the agricultural fields in the drainage area and catch tail water that flows off the fields.

The irrigation ditches often have small levees of earth on one or both banks. These levees vary in height from two to five feet. Where these levees are adjacent to the road right-of-way, they form the sides of a channel with the road surface as the bottom.

A typical flow path for an undeveloped area is overland flow across fields concentrating into a street and then conveyed to a point of concentration. Much of the watershed is developed or is planned for development. Many of the subdivisions in the watershed have internal drainage systems. Because of the lack of regional drainage facilities, these internal systems have their outlets into the adjacent arterial streets. Typical flow path in the development is along a local street into a retention basin with the basin overflow outletting to an adjacent arterial street.

2.2 EXISTING LAND USE

The existing land use in the watershed can be divided into row crop agriculture and single family residential development. A large percentage of the drainage area is planned for development with several housing tracts currently being graded. Where the plans for these developments are available and approved for construction, they have been included in the study as the existing condition.

The other predominate land use is single family residential. The Maricopa County Drainage Manual requires developers to retain the 100-year 2 hour runoff amount onsite to be infiltrated after the storm. The existence of these basins and their effect of reducing and alternating the flows is the major hydrologic characteristic of this land use.

2.3 PROPOSED LAND USE

As stated previously, much of the watershed is being converted from agricultural to single family residential land use. This trend will probably continue as the City of Avondale continues to grow. This report is concerned with the storm flows currently yielded by the watershed. The developed condition will be addressed in future documents.

2.4 SOIL DATA AND VEGETATIVE COVER

The soil data used in this study comes from the Soil Survey of Maricopa County, Arizona Central Part by the United States Department of Agriculture Soil Conservation Service.

The following table contains the soil type and appropriate data for the soils found in the watershed. The data is broken down by drainage area in Appendix 1.

TABLE 1
Soil Types and Properties

Map Unit	Soil Name	USDA Soil Texture	% of Map Unit
Le	Laveen	Clay Loam	26
Gt	Glenbar	Clay Loam	16
Tt	Trix	Clay Loam	14
LcA	Laveen	Loam	14
Mr	Mohall	Clay Loam	7
GgA	Gilman	Loam	6
Ma	Maripo	Sandy Loam	3
Tu	Tucson	Loam	2
Ge	Gilman	Fine Sandy Loam	2
Cb	Carrizo	Gravelly Sandy Loam	2
TD	Torrifluvents	Loam	2
Lb	Laveen	Sandy Loam	1
Br	Brios	Loamy Sand	1
LcB	Laveen	Loam	1
Tw	Tucson	Clay Loam	0.7
Gv	Glenbar	Clay	0.7
Vh	Vint	Fine Sandy Loam	0.4
BE	Beardsley	Loam	0.2
GxA	Gunsight-Rillito	Loam	0.2

The vegetative cover is of two distinct types corresponding to the two predominate land uses.

2.4.1 Existing Condition

The row crop agriculture is typically cotton or other low lying crops. Because of the planting and harvest cycle the vegetation cover in any given location can vary from bare ground to plant material 18 to 24-inches high. At anytime, the watershed will have a variety of fields that are in different stages of planting-harvest cycle.

The residential development vegetative cover is typified by low grasses and low water use, desert landscaping. The retention basins are often joint use parks with low grasses growing in the bottom of the basin.

2.4.2 Proposed Condition

As the watershed shifts from agricultural land use to residential development, the vegetation type will shift towards low grasses and desert landscaping.

Because a typical development tries to achieve a balance of cut and fill, very little import or export of soils is expected in the future. The soils data used in this report will be applicable to future studies.

2.5 EXISTING DRAINAGE IMPROVEMENTS

Although the watershed is crossed by irrigation canals, there are very few artificial storm water drainage structures in the undeveloped portions of the watershed. The two drainage structures that are relevant to this report are the two 60 inch reinforced concrete pipes (RCPs) under McDowell Road shown on Plate 1 and the pipe through the levee at the end of Thomas Road shown on Plate 2.

The two drains under McDowell Road are located at the end of the reverse curve. They consist of side by side flap gated 60 inch pipes with common headwalls at both ends. These pipes drain the area directly north of McDowell conveying the flows via an earth channel to the Aqua Fria River. The flap gates will close and seal when the Agua Fria River reaches a stage elevation of 980.7. With a free outfall these pipes have a maximum capacity of 345cfs. See Appendix 1 for the capacity calculations for this drain.

The pipe through the Agua Fria levee conveys flows from the earth ditch on the north side of Thomas Road into the river. This pipe has an invert elevation of approximately 995. The Agua Fria River 100 year water surface is 994.5 so the outflow of this pipe is not restricted. These water surfaces were taken from the Jerry Jones HEC-2 model of the Agua Fria provided by Maricopa County. The Jerry Jones calculations have been included in Appendix 1.

The developed portions of the watershed have onsite drainage facilities. These facilities are described in the development reports listed in the reference section.

The typical developed drainage system consists of a series of swales, ribbon gutters and/or small pipes that convey the flows to an onsite retention basin. As required by the City of Avondale, all flows are brought to this basin for infiltration until the rainfall exceeds the 100 year 2 hour event. When this rainfall is exceeded, the basins spill the excess in a controlled fashion into the surrounding arterial streets. The detailed methodology with which the basins are incorporated into the overall HEC-1 model will be discussed in Section 3.2.

2.6 PROPOSED DRAINAGE IMPROVEMENTS

The wetlands project includes culverts under the transfer pipe to convey flows from the northern portion of Sub Basin G. These culverts are fully discussed in the onsite drainage report to be submitted with the final design of the recharge basins. As the watershed continues to develop, the proposed subdivisions will have drainage patterns similar to the existing subdivisions. This pattern is required by the regulatory agencies and is not likely to change in the foreseeable future.

2.7 FUTURE DRAINAGE IMPROVEMENTS

Future drainage improvements will be added as necessary as the city grows and develops.

SUB BASIN SCHEMATIC

GROUND WATER RECHARGE BASINS FOR WETLANDS OF AVONDALE

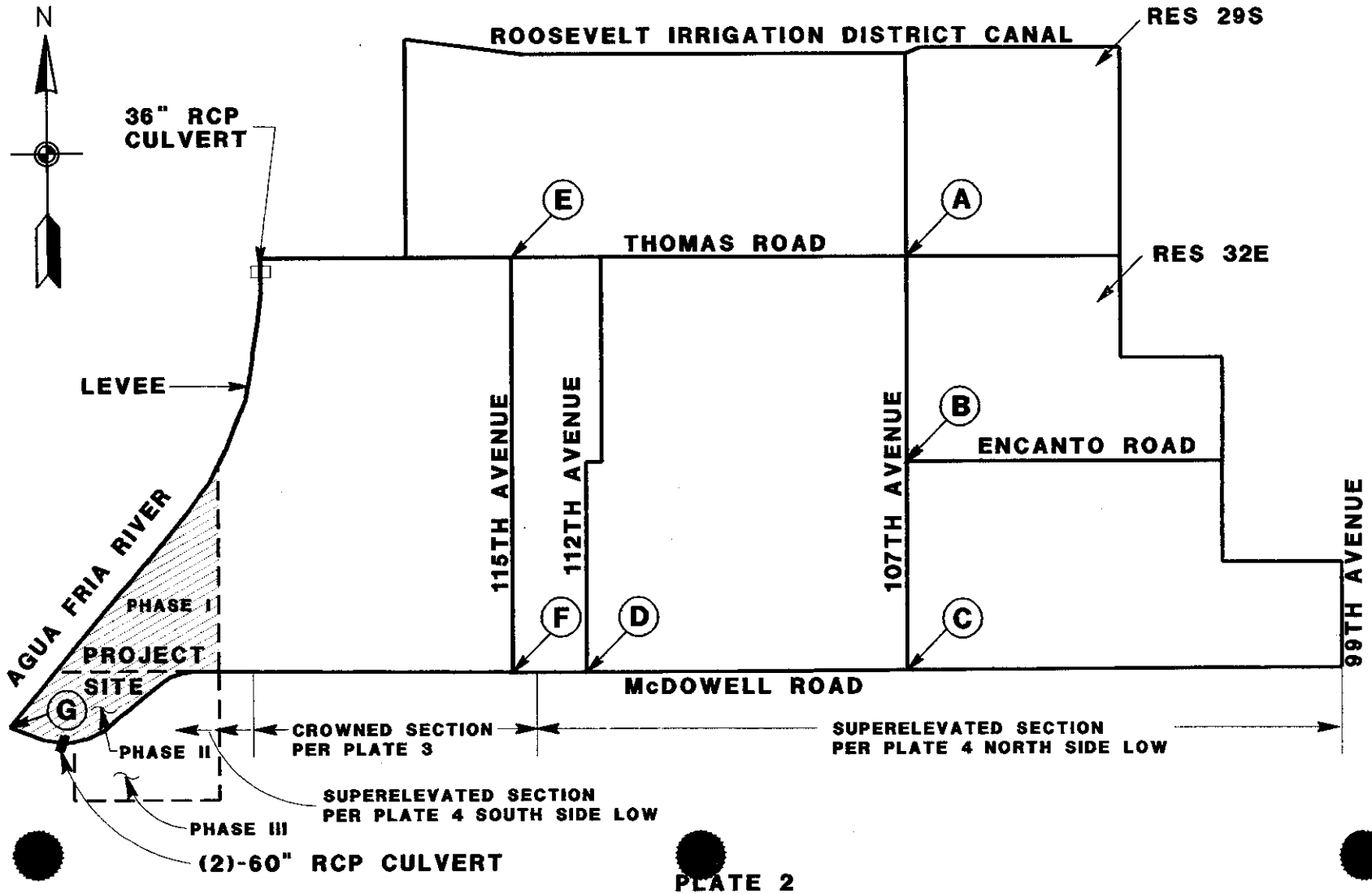


PLATE 2

SECTION 3 - HYDROLOGIC ANALYSIS (HEC-1)

3.1 METHODOLOGY

The methodology used in this study is as described in Drainage Design Manual for Maricopa County Volume I Hydrology. The manual states that the Clark Unit Hydrograph 6 hour 100 year storm is the recommended method for drainage areas less than 5 square miles. The Clark method was used for this study and the Maricopa County MCUHP1 program was used to generate the sub-basin hydrograph input file for HEC-1. HEC-1 was then used to route and combine the sub-basin hydrographs.

3.2 APPROACH

The general approach for preparing hydrology calculations of the City of Avondale is outlined in the Maricopa Hydrology Manual. These inputs are then transferred to a HEC-1 input file via the County's MCUHP1 program. Routing variables and other watershed characteristics such as detention basin volumes and outflow curves are then added to the input file to complete the model.

These manuals describe a general approach that must be customized to each individual application. The following is a discussion of the approach for this specific study watershed.

3.2.1 Sub Basin Boundaries

The drainage area has been subdivided into several sub-basins. This has been done to generate flow rates at critical locations in the watershed such as flow splits. The subdivisions were placed at the streets. The streets represent the major flow conveyances and the boundaries between major areas of the watershed. By using the streets as boundaries the flows can be concentrated and routed in the most accurate simulation of the true flow patterns in the watershed. Plate 2 shows the sub-basin boundaries.

3.2.2 Irrigation Ditches

Many of the fields are crossed by irrigation and tail water ditches. These ditches also run parallel to many of the roads in the watershed. For the purposes of this study, it has been assumed that these ditches will be filled with irrigation water and will not have any excess conveyance capacity for storm water.

It is also assumed that the Roosevelt Irrigation Ditch is at maximum capacity and will carry no excess storm water.

3.2.3 Street / Channel Routing

As previously stated, the streets act as the major drainage facilities in the watershed. Three typical street cross sections were coded into the HEC-1 routing algorithms; two for McDowell Road as it changes cross fall from sloped to the north to crowned and one for other streets. These typical sections are shown on Plates 3 through 5.

The two types of sections shown for McDowell Road were used in reaches coinciding with the available street plans. The crowned section was used from the reverse curve to future 112th Avenue and the sloped section from 112th Avenue to 107th Avenue.

The berms shown at the sides of the sections are earth fill. It has been assumed for the sake of routing that these berms will not breach and allow the flows to pass into the adjacent field. This is a conservative assumption in that the streets convey the flows more quickly than the adjacent field thereby decreasing the time of concentration.

3.2.4 Basin Roughness Factor

The basin roughness factors were taken from Figure 5.5 in the Maricopa County Hydrology Manual. The moderate low designation was used in that the streets are smooth conveyances. However, the crop lands delivering the overland flows are rough. It was decided that the moderate low roughness designation most accurately represented this combination.

The basin roughness factors are shown on Table 4.

3.2.5 Developed Area Retention Basin Routing

In accordance with the City of Avondale criteria, new developments are required to retain the 100 year 2-hour flow from their sites. Because it is infiltrated back into the ground, this water can be entirely removed from the hydrograph developed for that particular subarea. To accomplish this removal each sub area hydrograph was routed through a detention basin of appropriate size. See Table 2 for the retention basin sizes. The retention basin volumes were taken from the Hydrology reports from the appropriate development.

TABLE 2
Retention Basin Sizes

Subarea	Retention Basin Size
A	N/A
B	N/A
C	N/A
D	35.29 AF
E	31.47 AF
F	6.83 AF
G_1	13.81 AF
G_2	2.5 AF
G_3	0.64 AF
G_4	7.8 AF

To model the basins, a single arbitrary basin geometry was selected. This is applicable because with a retention basin no releases will occur. This eliminates the need for a representative outflow vs. depth vs. storage relationship for each individual basin. The maximum volume arbitrary basin was adjusted to match the proposed basin volume for each subdivision.

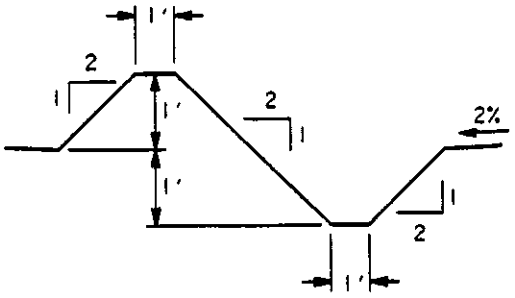
Once the basin storage is filled, the water will flow into the streets. The basin outflow curves were set to maximize the outflow and minimize the storage. This was done by setting highest outflow values that did not introduce instability in the routing calculations.

Where there is more than one development in the watershed, the retention basin volumes for each subdivision were added and the watershed hydrograph routed through the resulting basin volume.

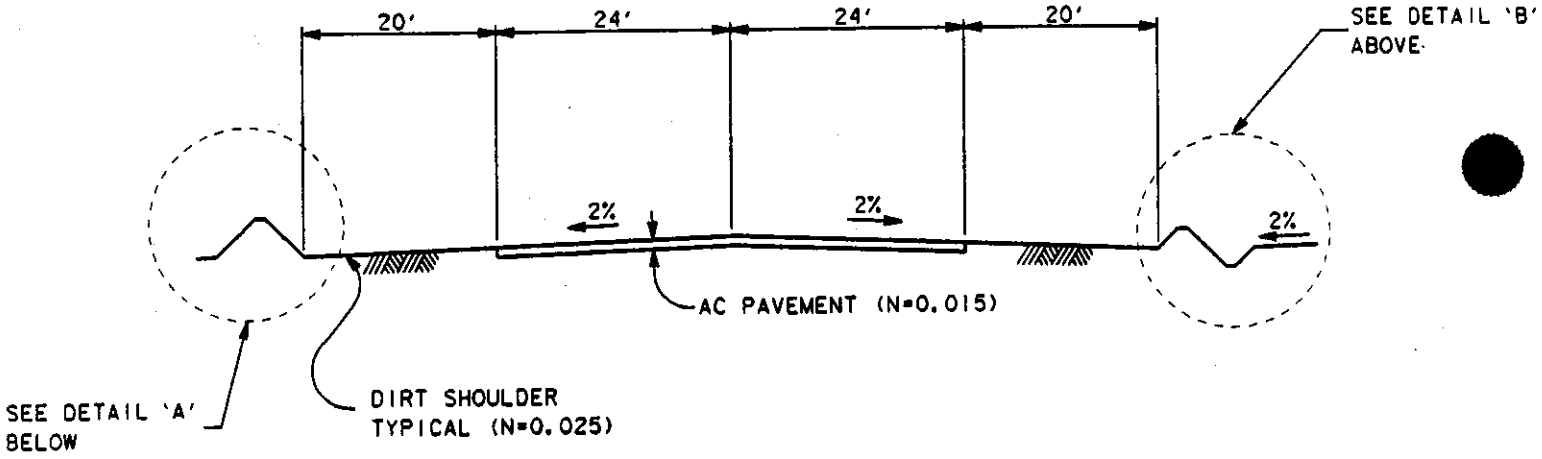
3.2.6 Subarea G Phase 1 Retention Basin Routing

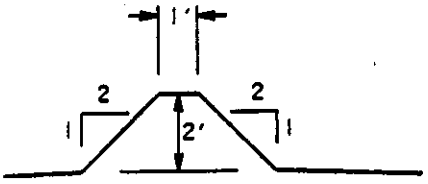
In Phase 1 of the project, the channel conveying the flows around the recharge basins to the culverts under McDowell Road will not exist beyond the SE corner of Phase 1 (see Plate 1). In this phase, the water flowing out of the terminus of the Phase 1 channel will spread out over the area of future Phase 2, ponding until it is sufficiently deep to flow out the culverts. In the HEC-1 models for Phase 1, the ponding will be modeled as a broad detention basin with the McDowell Road culverts as an outflow pipe. The volume vs. depth vs. outflow calculations for this routing can be found in Appendix 1. Table 3 below summarizes these calculations.

TYPICAL CHANNEL ROUTING SECTION
McDOWELL ROAD



DETAIL 'B'
N.T.S.





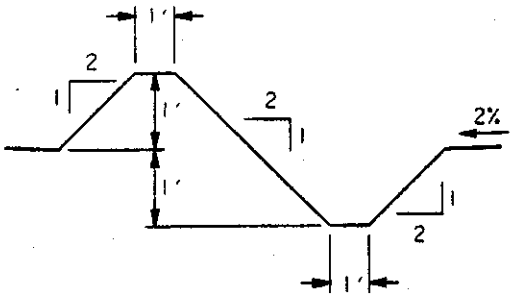
DETAIL 'A'
N.T.S.

CROWNED SECTION

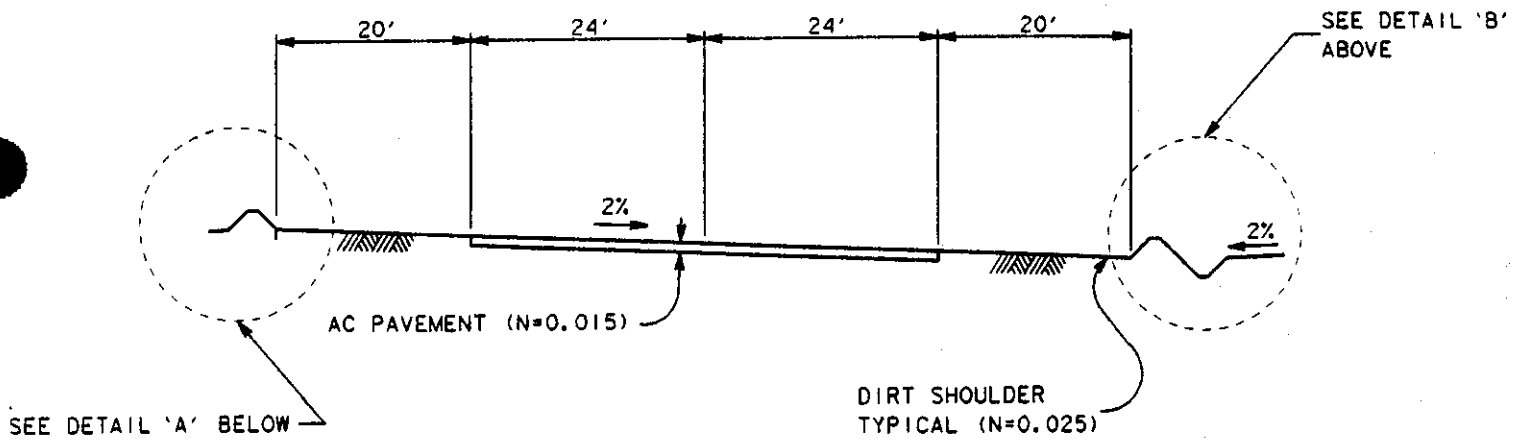
HORIZ: 1" = 20'
VERT: 1" = 10'

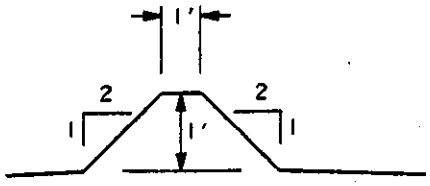
PLATE 3

TYPICAL CHANNEL ROUTING SECTION
McDOWELL ROAD



DETAIL 'B'
N.T.S.





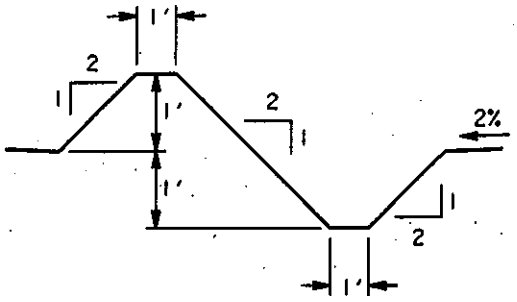
DETAIL 'A'
N.T.S.

SUPERELEVATED SECTION

HORIZ: 1" = 20'
VERT: 1" = 10'

PLATE 4

TYPICAL CHANNEL ROUTING SECTION
115TH AVENUE & 107TH AVENUE
LOOKING NORTH



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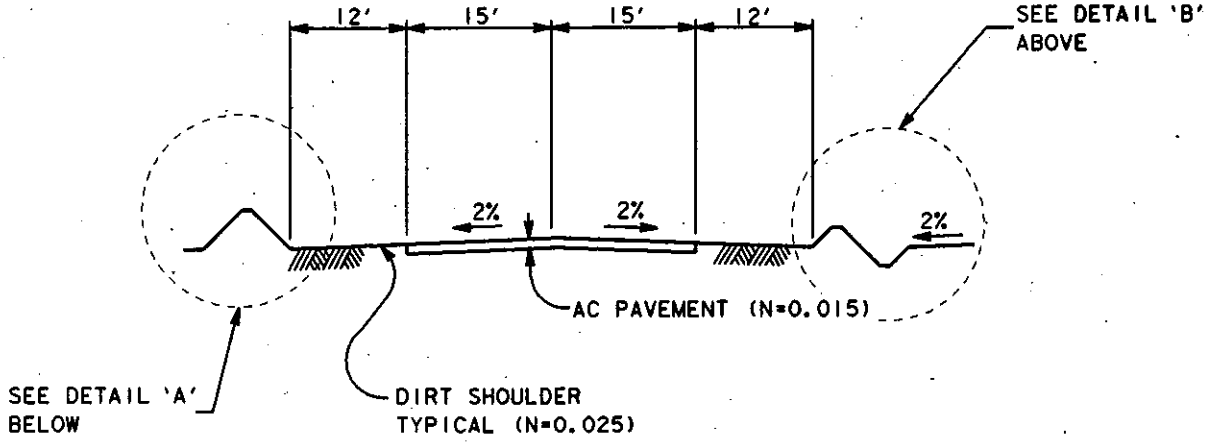
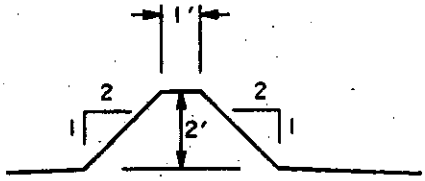




DETAIL 'A'
N. T. S.

TYPICAL SECTION

HORIZ: 1" = 20'
VERT: 1" = 10'

PLATE 5

TABLE 3
Elevation vs. Storage vs. Outflow

McDowell Road Phase 1

Elevation	Storage acft	Outflow cfs
974	0.0	0
976	2.5	0
977	6.12	0
978	12.21	15
979	20.88	41
980	32.25	90
981	46.84	151
982	65.17	220
983	86.93	287
984	111.78	345

3.3 SUB-BASIN DELINEATION

The major streets crossing the watershed serve to subdivide the drainage area and as logical boundaries for the subareas (see Plate 2). The earth berms along the street right of way turn crossing flows into or along the street cross section. The north south streets convey the flows southerly to McDowell. The east west streets convey the flows westerly to the nearest north south arterial. Using the street as boundaries yields the subareas outlined on the enclosed hydrology map.

The exception to this general rule is on the west side of Subarea D. The internal streets in this sub area convey the flows southerly to McDowell Road instead of Westerly to 115th Avenue. The southerly flow direction of the streets required the flows be concentrated into McDowell Road. The small strip to the west of Sub-basin D, Sub-basin F, is mostly agricultural and for this reason was kept separate from D which is mostly developed.

3.4 INPUT PARAMETERS

The hydrograph generation input parameters used in this study are those required by the Maricopa Hydrology Manual, the Maricopa County Unit Hydrograph Program and the U.S. Army Corps of Engineers HEC-1 program. The routing parameters were generated using the project approach and assumptions described in Section 3.2.

3.4.1 Source of Data

The soils data used to calculate the loss parameters was obtained from SCS Soil Survey of Maricopa County Central Part. The land use was taken from aerial photos taken by Landiscor dated February 12, 1995. The proposed development data was taken from the hydrologic report for each subdivision as provided by the City and the developers. See the reference section for the report information.

The topography used in the study and as the basis for the drainage area map is from the Maryvale Area Drainage Master Study flown by Kenney Aerial Mapping Inc. on March 28, 1994. This topography covers the entire watershed. The topography was supplemented in the area of the proposed Recharge Facility by additional topography flown by Integrated Water Technologies and the City of Avondale. This additional topography was flown in August 1995.

3.4.2 Sub-basin Input Variables

The following tables show the input variables that were used to generate the hydrographs for the individual subareas. The channel routing parameters will be discussed in subsequent sections.

TABLE 4
Sub-basin Hydrograph Parameters

Sub Basin	Basin Area Sqmi	Basin Length mi	Basin Roughness Kb	Basin Slope ft/mi	Hydraulic Conductivity Xksat in/hr	Percent Impervious Rtimp %	PSIF	Initial Abstraction IA %	DTHETA
A	0.253	1.0	0.028	7	0.059	27	8.5	0.23	0.15
B	0.319	1.0	0.05	6	0.136	0.0	6.4	0.50	0.24
C	0.45	1.0	0.049	10	0.08	0.0	7.6	0.50	0.15
D	0.688	1.8	0.048	5.5	0.149	23	3.6	0.271	0.248
E	0.572	1.32	0.045	6.9	0.130	20	6.4	0.30	0.205
F	0.201	0.99	0.051	6.9	0.096	0.0	7.1	0.50	0.15
G_1	0.413	1.17	0.050	21.3	0.515	7.0	3.5	0.43	0.255
G_2	0.040	0.41	0.064	48.9	0.515	30	3.5	0.43	0.255
G_3	0.010	0.30	0.072	60.9	0.515	30	3.5	0.43	0.255
G_4	0.252	0.98	0.064	26.3	0.515	10.47	3.5	0.43	0.255

The support calculations can be found in Appendix 1.

3.4.3 Concentration Points

With the street as the major flow conveyances, the concentration points become the street intersections. The exception to this generalization is at the downstream end of the watershed. Here the flows from Subarea G concentrate at the culverts under McDowell Road. The flows from Subareas A, B, C, D, E (diversion) and F concentrate in the reverse curve in McDowell Road. At this point the water over flows the south side and sheets to the Agua Fria River. Because of the southerly cross fall on McDowell in the reverse curve and the fact that the berm on the south side of McDowell is lower than the north side berm, the water from Subareas A, B, C, D, E (diversion) and F never reaches the north side of McDowell Road.

The flows from Subarea E split with most of the flow running through the pipe at the east end of Thomas Road and into the Agua Fria. In the HEC-1 calculations this split is modeled as a diversion with the mainline flowing east to the pipe and the diverted flows running south along 115th Avenue.

The following is a table of concentration points and sub areas tributary to that point.

TABLE 5
Location of Concentration Points

Subarea Designation	Concentration Location
Subarea A	107th Ave. and Thomas Road
Subareas A and B	107th Ave. and Encanto Road
Subareas A, B and C	107th Ave. and McDowell Road
Subareas A, B, C and D	McDowell Road and Future 112th Avenue
Subareas A - D, E (diversion) and F	McDowell Road and 115th Avenue
Subareas A - D, E (diversion) and F	McDowell Road @ Reverse Curve
Subarea G	Culverts @ McDowell Road

Plate 6 shows a schematic of the linkage between the concentration points used in the HEC-1 Calculations.

3.4.4 Flow Split at McDowell Road and 115th Avenue

McDowell Road has a cross fall that slopes to the north for the majority of its alignment within the study area. As the road runs westerly towards the intersection with 115th Avenue, the one way cross slope transitions to a crowned

section. This transition allows flow to cross to the south side of the right-of-way and then break south in 115th Avenue. The water in 115th Avenue runs southerly to the I-10 drainage channel and out of the study area.

Survey was performed to establish the ground surfaces for the intersections. Normal depth calculations using AES Natural Channel (NCH) software were prepared for the two sections. These sections are shown on Plates 7 and 8. The street slopes were taken from the aerial topography. The survey shows that the flow line of McDowell is 0.49 below 115th Avenue. Therefore, the water depth in McDowell Road is 0.49 feet deeper than flows in 115th Avenue.

The 0.0 elevation in the flow split calculation for McDowell Road was lowered by 0.49 and the flow rates in the two streets were then combined for a total figure. This total flow rate represents the inflow to the intersection. The flows in each cross section represent the flows in the two streets. Table 6 shows the total flow, the flow in McDowell Road and the diverted flow in 115th Avenue. The support calculations for this split are provided in Appendix 1.

TABLE 6
Flow Split at 115th Avenue and McDowell Road

DEPTH OF FLOW		FLOW IN STREET		
McDowell Road ft	115th Ave. ft	McDowell Road cfs	115th Avenue cfs	TOTAL FLOW
0.50	0.01	12.53	0	12.53
0.60	0.11	21.28	0.13	21.41
0.80	0.31	48.96	2.05	51.01
1.00	0.51	90.64	8.89	99.53
1.20	0.71	143.60	23.21	166.81
1.40	0.91	203.36	61.68	265.04
1.60	1.11	285.64	117.16	402.80
1.80	1.31	396.73	185.80	582.53

The 115th Avenue flow and the total flow were entered into HEC-1 for the flow split calculation.

ROUTING NODE - LINK MAP

GROUND WATER RECHARGE BASINS

FOR

WETLANDS OF AVONDALE

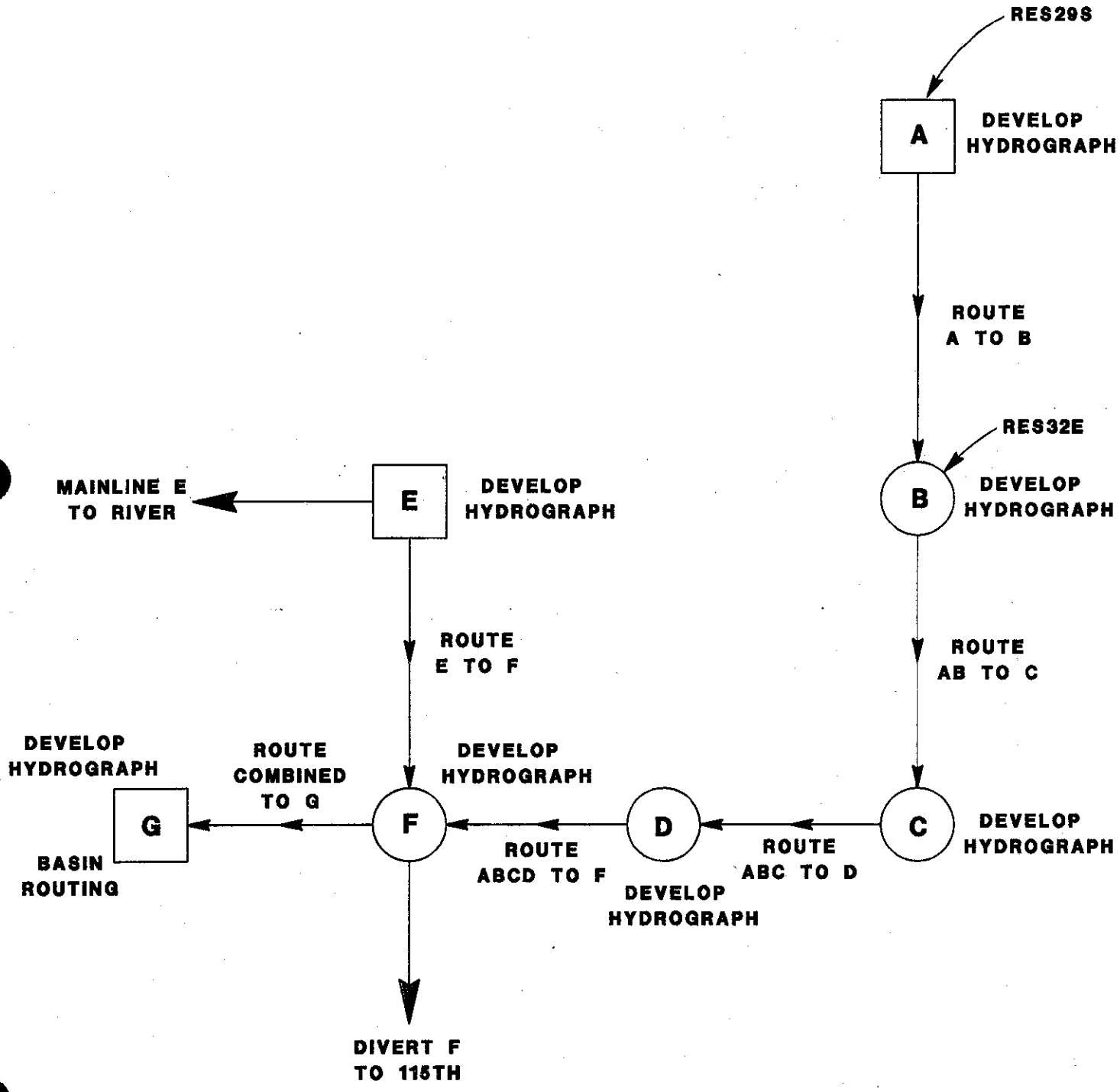
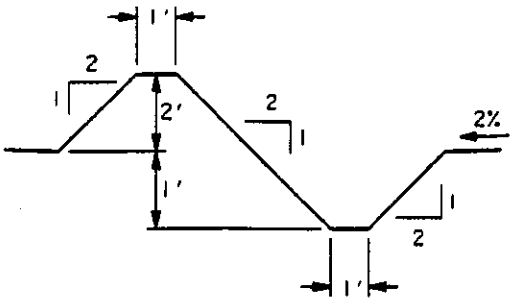


PLATE 6

FLOW SPLIT AT F
McDOWELL ROAD



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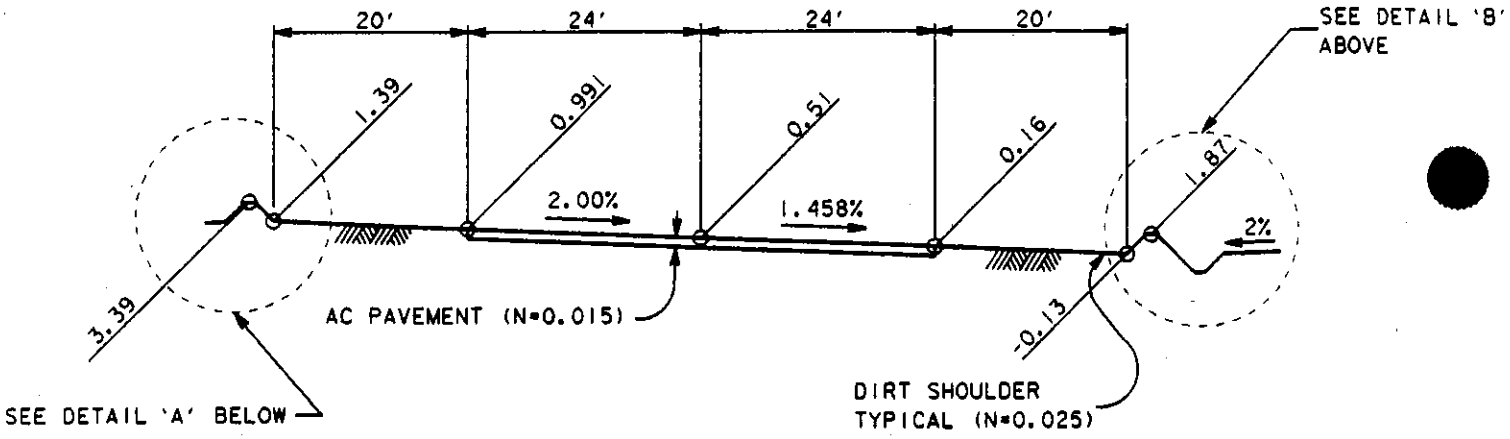
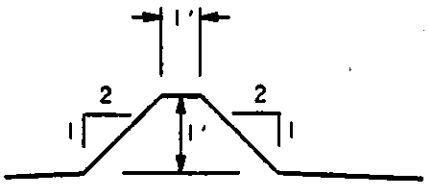
N. T. S.





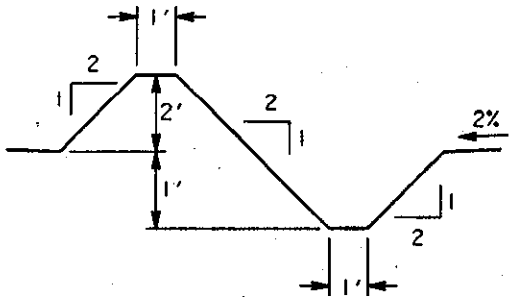
DETAIL 'A'
N. T. S.

LOOKING U/S (EAST)

LONGITUDINAL SLOPE = 0.0026

PLATE 7

FLOW SPLIT AT F
115TH AVENUE



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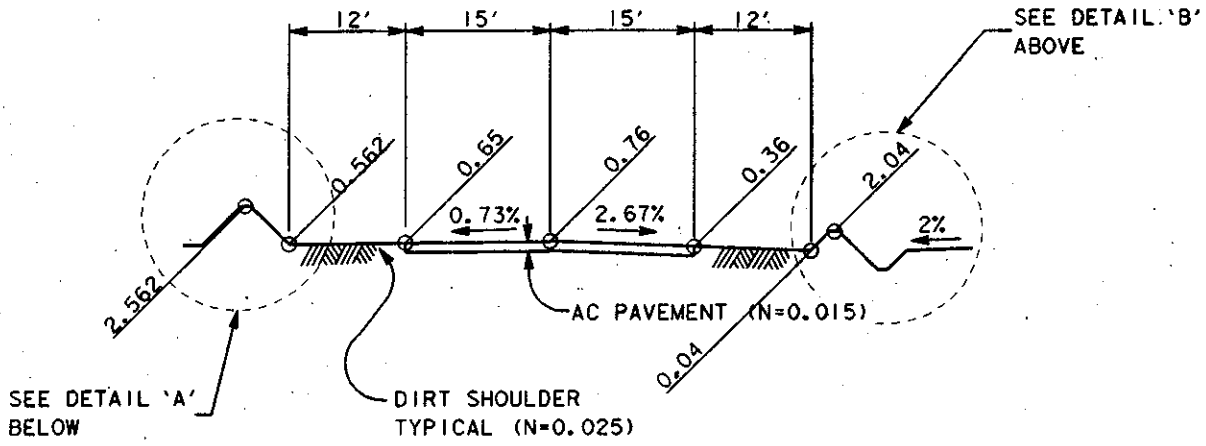
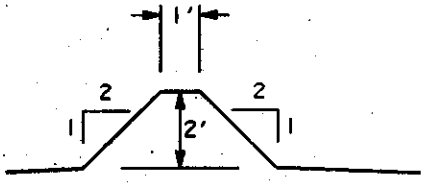




DETAIL 'A'
N.T.S.

LOOKING U/S (NORTH)

LONGITUDINAL SLOPE = 0.004

PLATE 8

3.4.5 Flow Split at 115th Avenue and Thomas Road

Field survey indicates that the northwest corner is the low point of the 115th Avenue and Thomas Road intersection. There is also a curb and gutter with a positive slope westerly on the north side of Thomas Road. The above indicates that the majority of the flows generated by Subarea E will flow westerly to the Agua Fria.

The survey also indicates that once the water depth in Thomas Road exceeds 0.60 feet, flows will begin to break south on 115th Avenue. To model this flow split, the typical section for 115th Avenue was used as a base and revised for the true pavement elevations as surveyed. A second section was used to model Thomas Road based on the survey. These sections are shown on Plates 9 and 10.

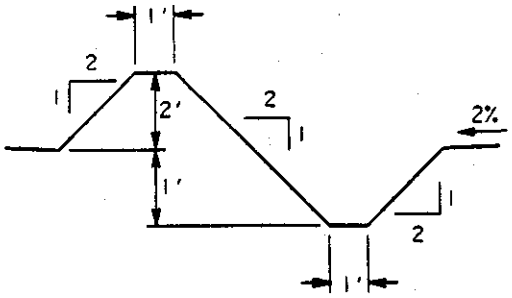
Normal depth calculations were run for both sections. The 0.0 depth on Thomas Road hydraulic calculations was lowered by 0.60 and the flow rates in the two streets were then combined for a total figure. This total flow rate represents the in flow to the intersection. The flows in each cross section represent the flows in the two streets. Table 7 shows the total flow, the Thomas Road flow and the total flow in 115th Avenue. The support calculations for this split are found in Appendix 1.

TABLE 7
Flow Split at 115th Avenue and Thomas Road

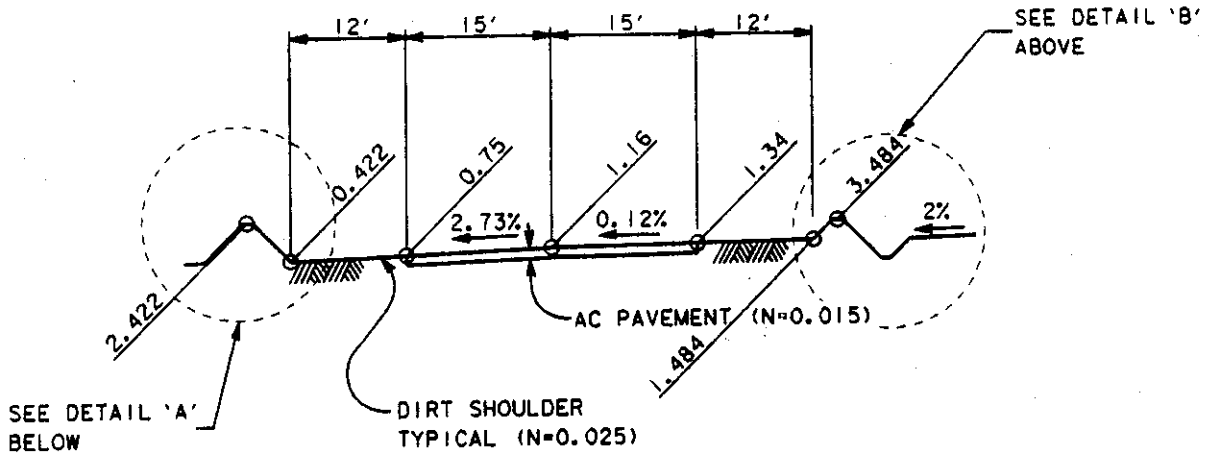
DEPTH OF FLOW		FLOW IN STREET		
Thomas Road	115th Avenue	Thomas Road	115th Avenue	TOTAL FLOW
0.60	0.00	11.59	0.0	11.59
0.80	0.20	25.84	3.90	29.74
1.00	0.40	46.59	20.06	66.65
1.20	0.60	85.38	45.00	130.38
1.40	0.80	139.94	77.26	217.20
1.50	0.90	171.07	95.87	266.94
1.60	1.00	204.60	116.02	320.62
1.70	1.10	240.47	137.66	378.13

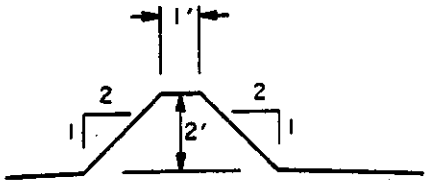
The Thomas Road flow and the total flow were entered into HEC-1 for the flow split calculation.

FLOW SPLIT AT E THOMAS ROAD



DETAIL 'B'
N.T.S.





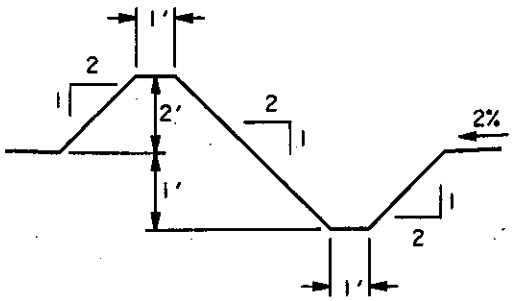
DETAIL 'A'
N.T.S.

LOOKING U/S (EAST)

LONGITUDINAL SLOPE = 0.0028

PLATE 9

FLOW SPLIT AT E 115TH AVENUE



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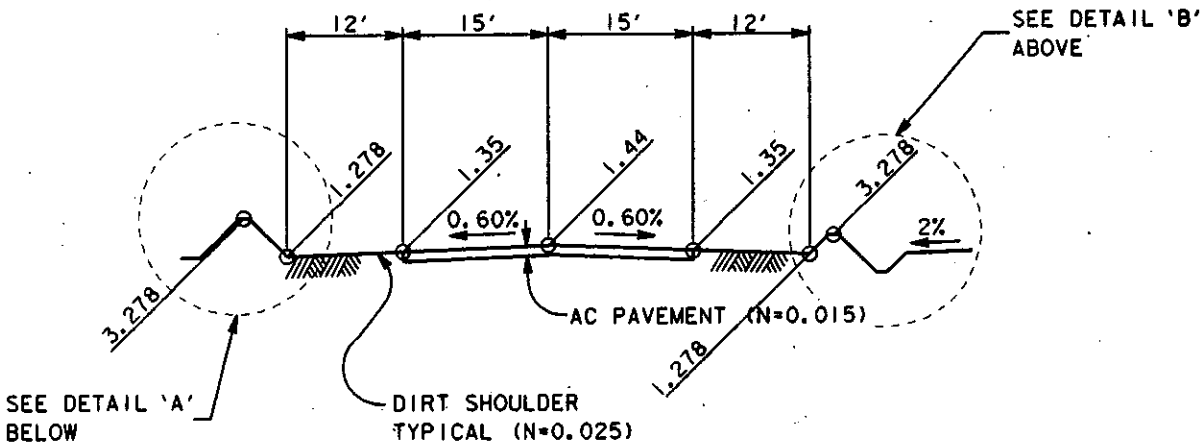
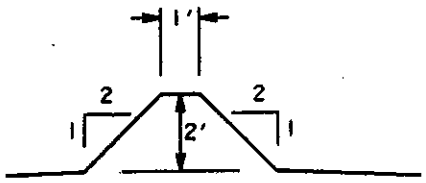




DETAIL 'A'
N. T. S.

LOOKING U/S (NORTH)

LONGITUDINAL SLOPE = 0.0011

PLATE 10

3.4.6 Storm Drains

There are two storm drains critical to this study. The first is the double 60-inch pipe system under McDowell Road on the south side of Phase 2. This system is shown on Plate 1B and conveys water under the road to an existing earth channel. The second is the 36-inch pipe through the Agua Fria levee at the west end of Thomas Road. This culvert conveys the mainline flows off of Thomas Road through to Agua Fria levee.

The hydraulics for the McDowell Road system were performed on the Storm Plus Program to establish the outflow versus depth curve for the basin routing. This program calculates the HGL in a single pipe so the flows were doubled when entered into the HEC-1 model. The support calculations for the outflow are found in Appendix 1. Table 3 gives a summary of these calculations.

3.5 CHANNEL ROUTING PARAMETERS

The channels used in the HEC-1 routing are the road sections between the appropriate points of concentration. An overflow area was added to the left bank should the inflow exceed the street capacity. The average slope of the street was used in the routing.

3.5.1 Channel "N" Values

The "n" values used in the channel routing are shown in Table 8. It was assumed that the fields for the overflow area would be bare ground with a lower "n" than mature crops. This is a conservative assumption in that it accelerates the routed flows.

TABLE 8
Channel "n" Values

Bottom Material Type	Mannings "N"
Asphalt	0.015
Graded Earth	0.025
Over flow Area Bare Cropland	0.06

3.5.2 Typical Channel Sections

The typical channel sections are shown on Plates 4, 5, and 6. HEC-1 has a specific format for the input of channel geometry. The geometry shown on the plates was entered in to the program in a format that fulfills the HEC-1 data constraints.

3.6 RAINFALL PARAMETERS

The rainfall parameters were generated by Maricopa County's, Maricopa County Unit Hydrograph Program. This program develops the unit hydrograph for each drainage area. The storm size was set as the same as the watershed. A rainfall depth of two inches for a 10 year and three inches for a 100 year was taken from Figures 2.4 and 2.7 of the Maricopa County Hydrology Manual. This figure has been included in Appendix 1. The 2 year rainfall depth of 1.2 inches was taken from Figure 2.2.

3.7 COMPARISON TO PREVIOUS INPUT DATA

Comparison of the input data for this study and the two previous studies is extremely difficult because 1) the purposes of the studies are different, 2) the watershed has developed in the time between the studies, and 3) the level of detail for the studies is different. The results of this study will be compared with previous studies in Section 4.4.

3.8 OUTPUT DATA

The three phases of the project, each with two design rainfall amounts corresponding to the 10 and 100-year frequencies and with the Agua Fria at low and high flood elevations yields nine HEC-1 models. These models were run to test different flow scenarios to determine the controlling case for each of the three phases of construction.

3.8.1 Models 1 and 2 Phase 1 Flow Through Routing

These models determine the flows tributary to the Phase 1 site prior to its grading. Under this condition the flows spread out over the area north of McDowell Road and pond until they begin to flow out the twin culverts under McDowell. The area north of McDowell acts as a shallow detention basin which attenuates the flows. This model will calculate the ponded water surface elevation with a 10 and 100 year flow rate coming off the watershed.

3.8.2 Model 3 Phase 1 Agua Fria at Flood Elevations

This model determines the effect of high water in the Agua Fria on the ponding elevation in the area to the north of McDowell. With the Agua Fria water level up the flap gates will close preventing outflow through the culverts. To establish the flow off the watershed, the rainfall on Subarea G will be reduced to a value contemporaneous with the peak in the Agua Fria of 1.188 inches.

3.8.3 Models 4 and 5 Phase 2 Flow Through Routing

These models determine the flows tributary to the Phase 2 site after its grading. Under this scenario the flows are conveyed to the McDowell Road culverts by an earthen open channel. This model will calculate design flow rates for the channel with 10 and 100 storm flows coming off the watershed.

3.8.4 Model 6 Phase 2 Agua Fria At Flood Elevations

This model determines the design volume for the open channel in the area to the north of McDowell. With the Agua Fria water level up, the flap gates will close preventing outflow through the culverts. The flows will be stored on the Phase 2 site. To establish the flow off the watershed, the rainfall on Subarea G will be reduced to a figure coincidental with the peak in the Agua Fria.

3.8.5 Models 7 and 8 Phase 3 Flow Rates

These models will determine the design flow rates for the future Phase 3 facilities that convey flows to the Agua Fria. These flows are independent of the flow in the Agua Fria in that the river elevation never reaches the spill elevation on the south side of the reverse curve at McDowell.

SECTION 4 - DISCUSSION AND RESULTS

4.1 ROOSEVELT IRRIGATION DITCH

The Roosevelt Irrigation Ditch (RID) runs along the top of the watershed from the northwest to the southeast. The ditch is a reinforced concrete channel with an earth berm along each bank. This berm averages 3 to 4 feet above the adjacent ground with a maximum of 10+ feet at Garden Lakes and a minimum of 2.5 feet at the bend east of 107th Avenue and north of Thomas Road.

Maricopa County has supplied hydrographs, based on a 100-year storm event, for flows over-topping the Roosevelt Irrigation Ditch. These hydrographs, Res295 and Res32E, break into Sub Basins A and B respectively. The peak hydrograph time for these overflows is at 0635, or two hours after the peak in Sub Basin A. The overflow hydrographs were lagged two hours when combined into the Phase 3 100-year model.

4.2 PHASE 1

In Phase 1 the Recharge Facility will be constructed in area north of old McDowell Road. The storm flows from Subarea G will pond in the depression between old and new McDowell Road.

4.2.1 Phase 1 Agua Fria at Low Elevation

With low water in the Agua Fria, the ponded water begins to flow out the 2-60 inch culverts when it exceeds elevation 977.13. This water is then conveyed to the Agua Fria by an earth channel.

Table 9 gives the discharge, storage, and elevation data for the ponded water. Plate 11 shows the Phase 1 inundation area. The HEC-1 calculations for this routing can be found in Appendix 2.

4.2.2 Phase 1 Agua Fria at High Flood Elevation

When the Agua Fria reaches an elevation of 981.70, the flap gates on the 2-60 inch pipes seal and the water ponds in the depression. The 50 year water surface in the Agua Fria River is 980.58. Using the 50 (0.02) year probability in the Agua Fria and maintaining a total probability of a 100 year event (0.01) for the two simultaneous events yields a 2 year storm from the study watershed [(0.01/0.02) = 0.50, 1/0.50 = 2]. This is conservative in that the 50 year storm doesn't entirely seal the flap gates and some water will flow out of the ponded area. The 2 year ponded water surface is 976.55 giving a total storage of 5 AF at this elevation.

The water surface in the Agua Fria was calculated using the Jerry Jones HEC-2 model provided by Maricopa County. The McDowell Road sections from this model and a stage discharge relationship are in Appendix 1.

PHASE 1
GROUND WATER RECHARGE BASINS
FOR
WETLANDS OF AVONDALE
INNUNDATION AREA

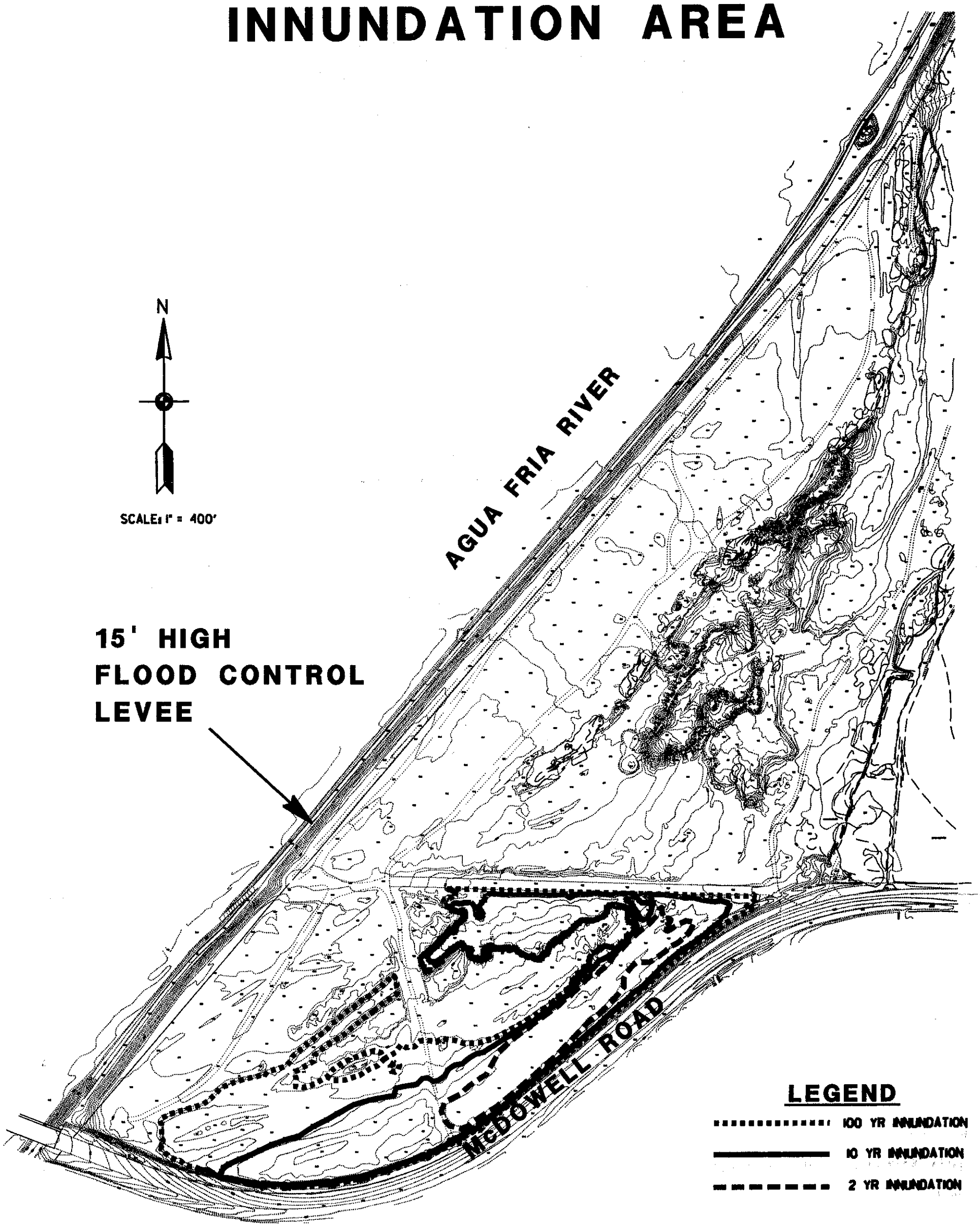


PLATE 11

TABLE 9
Phase 1 - Discharge Storage Elevation Data

Frequency Years	Inflow cfs	Outflow through Flap Gates cfs	Storage AF	Inundation Elevation ft
2	23	0	4.5	976.55
10	117	23	14.9	978.32
100	348	90	32.2	979.99

4.2.3 Phase 2 Agua Fria at Low Flood Elevation

In Phase 2 an earth channel will convey the flows around the recharge basins to the 2-60 inch pipes. In the routing, this channel was modeled as a 20 foot bottom width with 3:1 side slopes. Table 10 gives the discharge, storage, and elevation data for Phase 2.

4.2.4 Phase 2 Agua Fria at High Flood Elevation

As in Phase 1, the flap gates close with a 50-year storm yielding a 2-year design storm from the watershed. The 2-year storm yields a storm flow volume of 5-acre ft.

TABLE 10
Phase 2 - Discharge Storage Data

Frequency Years	Inflow	Outflow though Flap Gates cfs	Storage AF
2	23	0	4.5
10	117	40	11.9
100	348	148	25.1

4.2.5 Phase 3 Over Flow from McDowell Road

Plate 12 shows a cross section from the beginning of the reverse curve in McDowell. The section shows that the water at McDowell Road will flow out over the south side and into the Phase 3 area. The Jerry Jones HEC-2 model gives the 100 year water surface in the Agua Fria as 983.99, which is below the south side of McDowell Road. The critical cross section from the model has been included in the Appendix. The future Phase 3 basins will have to be protected to this elevation to prevent flooding from the Agua Fria River. The future site will also have to contain a facility protecting the recharge basins from flows off of McDowell Road. These flow rates are given in Models 7 and 8.

4.3 SUMMARY OF CALCULATIONS

Table 11 shows the flow rates at the various points of concentration in the watershed. The calculations for the table can be found in Appendix 2.

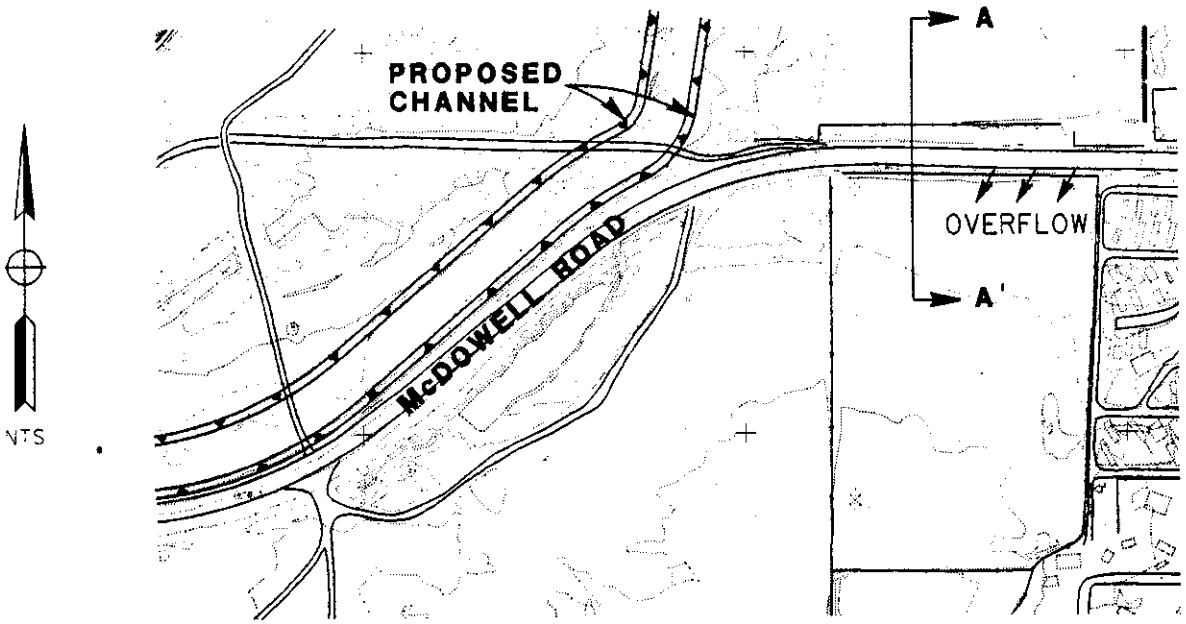
TABLE 11
Flow Rates at Concentration Points

Subarea Designation	2 year	10 year	100 year
Subarea A	N/A	119	574
Subareas A and B	N/A	172	713
Subareas A, B and C	N/A	282	775
Subareas A, B, C and D	N/A	266	962
Subareas A-D, E (diversion) and F	N/A	264	1,006
Subareas A-D, E (diversion) and F Split	N/A	203	658
Subareas A-D, E (diversion) and F Route	N/A	193	618
Subarea G	23	117	348

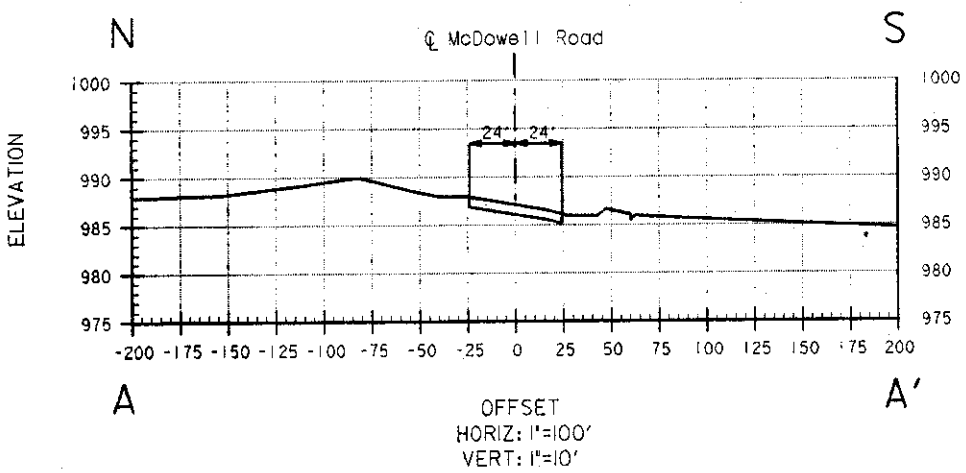
4.4 Comparison to Previous Studies

The major difference between this study and the previous studies is the size of the watershed. The previous studies used topography that did not show the RID which bisects the study area cutting the total tributary area by 43%. A second difference is in the approach. The previous studies did not subdivide the watershed, but developed a single hydrograph for the entire area. This study performs a more detailed analysis. Finally, the previous studies did not have the detailed topography and flow split surveys that are critical to the analysis. For the above reasons, the data presented herein represent a more accurate picture of the watershed than the previous studies.

McDOWELL ROAD
AT
OVERFLOW LOCATION



PLAN



SECTION A-A'

SECTION 5 - RECOMMENDATIONS

5.1 PHASE 1

The following are the recommended design parameters to be used in the final design of the Recharge Facility. The channel should be designed for 348 cfs. The worst case for ponding occurs in the 100-year storm with a ponded elevation of 979.99. The maximum out flow from the culverts is 90 cfs.

5.2 PHASE 2

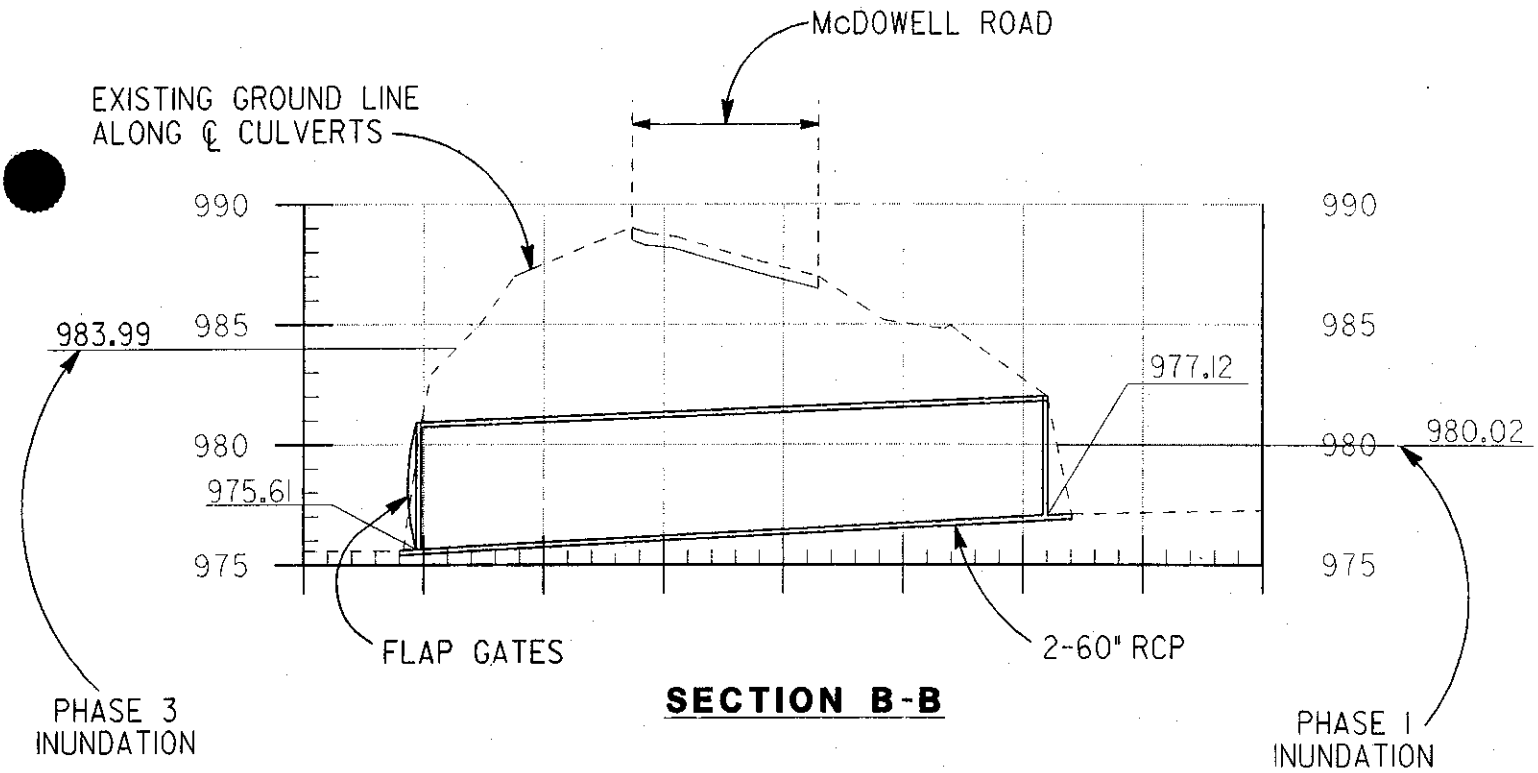
The channel should be designed for 348 cfs with a 20-foot bottom width and 3:1 side slopes. The maximum storage required in the Phase 2 area is 25.1 AF. The maximum discharge through the culverts is 148 cfs.

5.3 PHASE 3

The channel protecting the Phase 3 site should be designed for 618 cfs. The 10-year flow off of the watershed tributary to Phase 3 is 193 cfs. The maximum elevation for the Aqua Fria River during flood stage equals 983.99 ft.

GROUND WATER RECHARGE BASINS
FOR
WETLANDS OF AVONDALE

INUNDATION ELEVATIONS



SECTION B-B

**PHASE 2 INUNDATION
CONTAINED IN CHANNEL

PLATE 13

References

Agua Fria River Flood Control Project Analysis of Side Drainage Requirements
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Jerry Jones Associates calculations with a reference date of November 22, 1988

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Huitt-Zollars, Inc.
April, 1996

Garden Park Final Drainage Study
Anderson - Nelson Inc.
April 18, 1996

Appendix 1

SUPPORT CALCULATIONS

1. Maricopa County Hydrology Manual Figure 2.2 - 2 Year, 6 Hour Rainfall Depths
2. Maricopa County Hydrology Manual Figure 2.4 - 10 Year, 6 Hour Rainfall Depths
3. Maricopa County Hydrology Manual Figure 2.7 100 - Year 6-Hour Rainfall Depths
4. Maricopa County Hydrology Manual Figure 5.5 Basin Roughness Factors
5. Flow Split Verification of Results - Hand Calculations
6. 115th Avenue and Thomas Road Flow Split Calculations
7. 115th Avenue and McDowell Road Flow Split Calculations
8. McDowell Road Culvert Hydraulics
9. Phase 1 Depth vs. Storage vs. Outflow Calculations
10. Phase 2 Depth vs. Storage vs. Outflow Calculations
11. Flow Rates for the Agua Fria
12. HEC-2 for the Agua Fria at McDowell Road 10, 25, 50 year
13. Basin Parameter Calculations

E:\RPT8\AVONDALE\REPORT.WPD

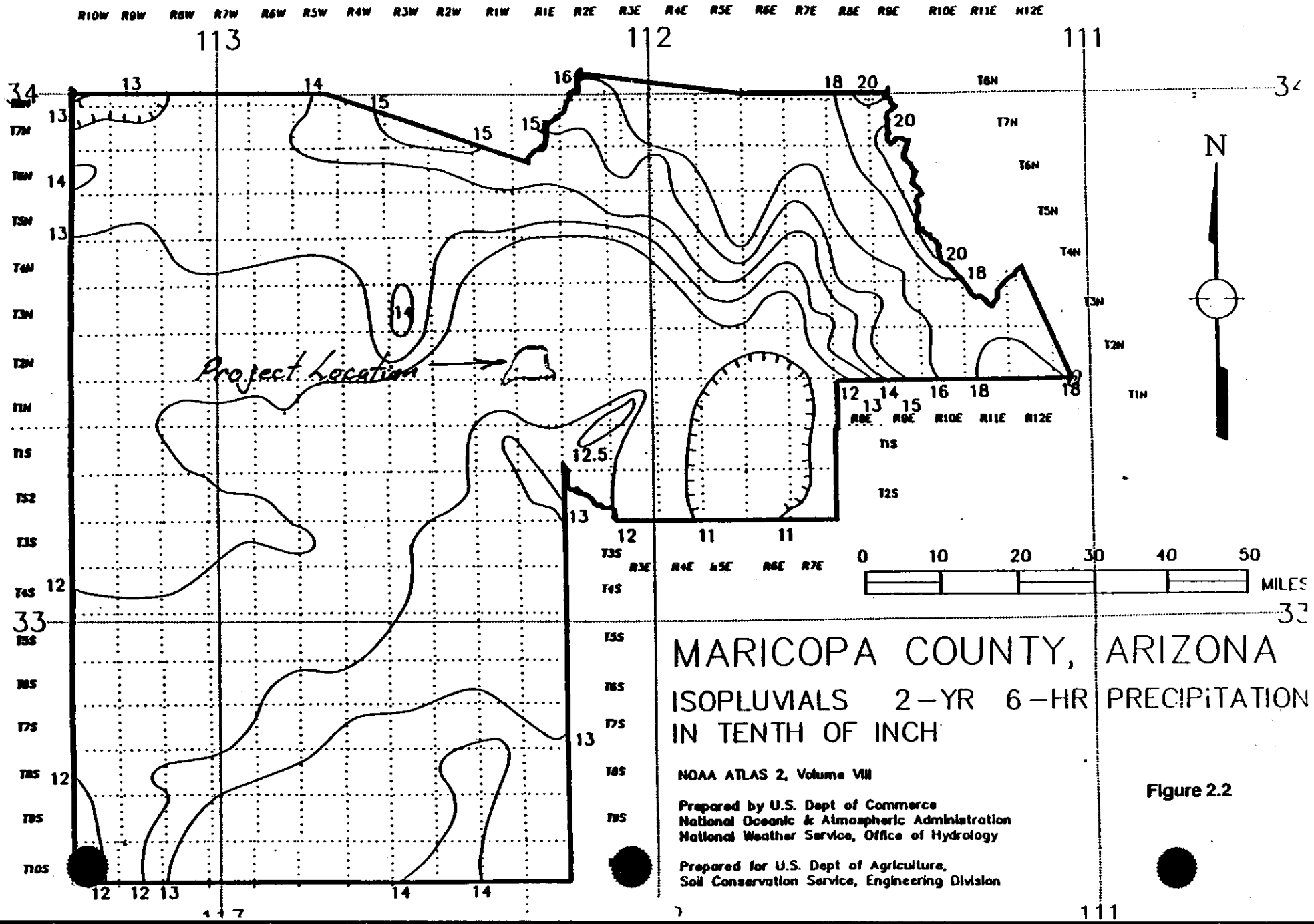

R10W R9W R8W R7W R6W R5W R4W R3W R2W R1W R1E R2E R3E R4E R5E R6E R7E R8E R9E R10E R11E R12E
113
112
111
34
33
T8N
T7N
T6N
T5N
T4N
T3N
T2N
T1N
T1S
T2S
T3S
T4S
T5S
T6S
T7S
T8S
T9S
T10S
Project Location
N
0 10 20 30 40 50
MILES
MARICOPA COUNTY, ARIZONA
ISOPLUVIALS 2-YR 6-HR PRECIPITATION
IN TENTH OF INCH
NOAA ATLAS 2, Volume VIII
Prepared by U.S. Dept of Commerce
National Oceanic & Atmospheric Administration
National Weather Service, Office of Hydrology
Prepared for U.S. Dept of Agriculture,
Soil Conservation Service, Engineering Division

Figure 2.2

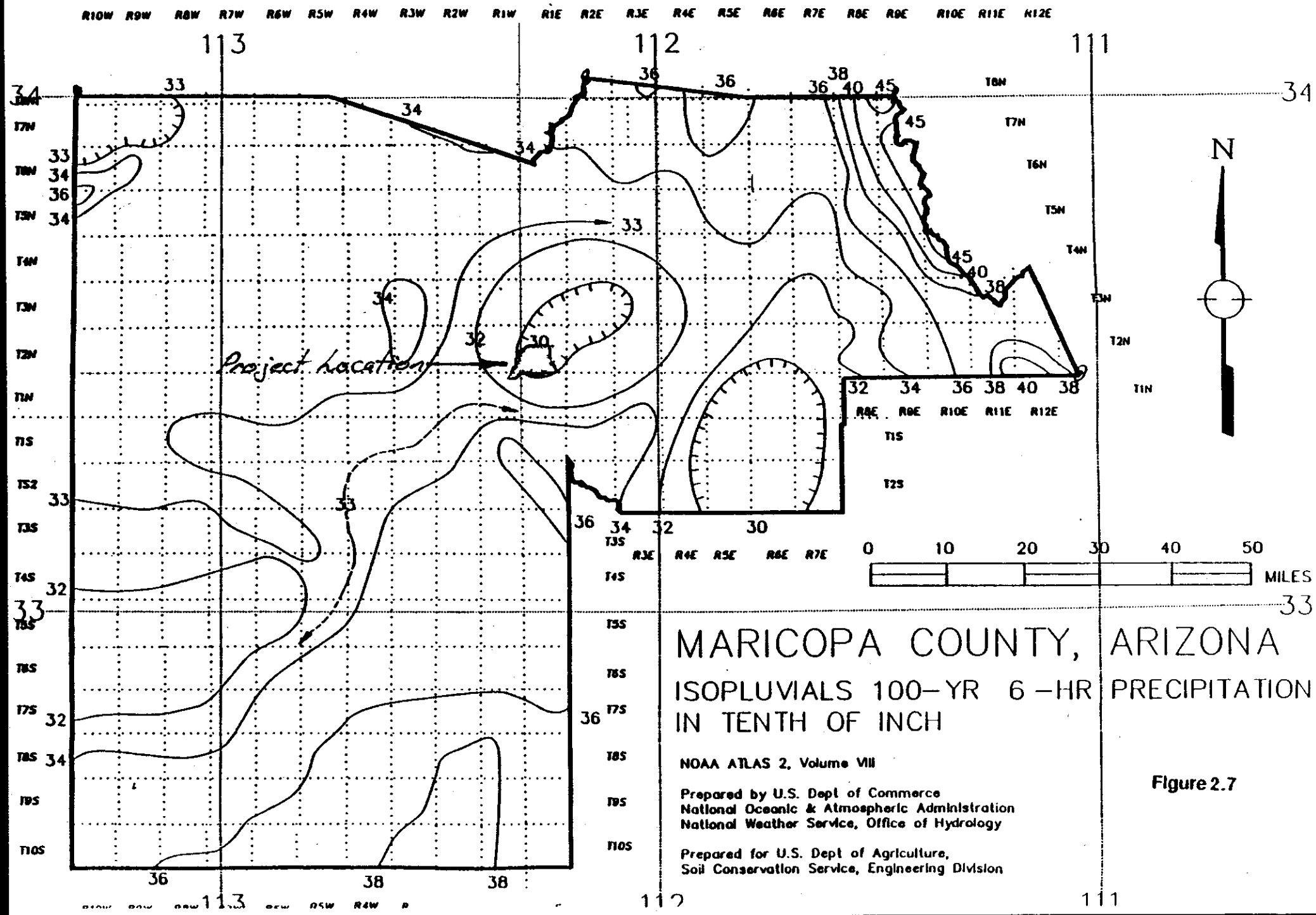
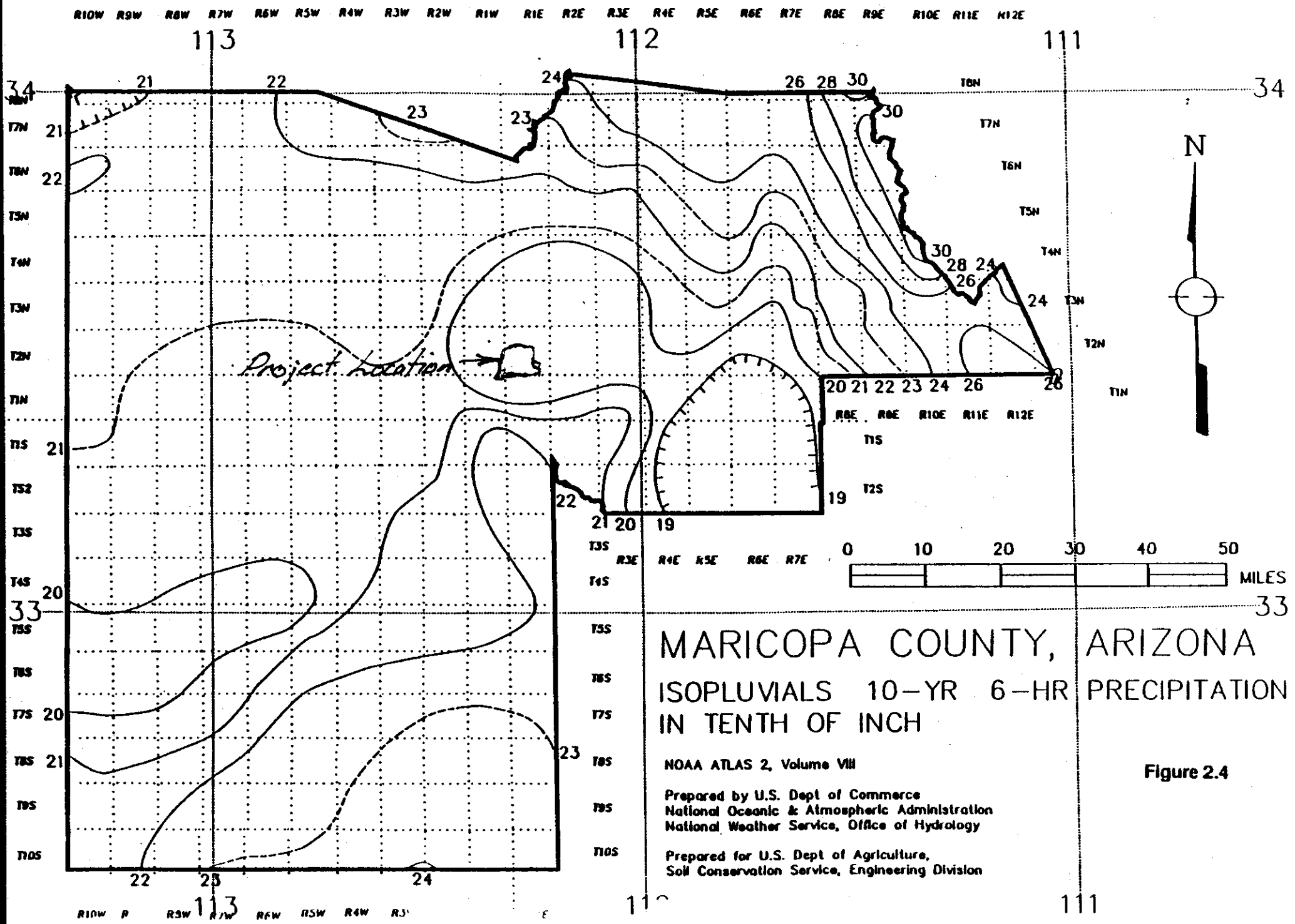

MARICOPA COUNTY, ARIZONA
ISOPLUVIALS 100-YR 6-HR PRECIPITATION
IN TENTH OF INCH
NOAA ATLAS 2, Volume VIII
Prepared by U.S. Dept of Commerce
National Oceanic & Atmospheric Administration
National Weather Service, Office of Hydrology
Prepared for U.S. Dept of Agriculture,
Soil Conservation Service, Engineering Division
Project Location
N
0 10 20 30 40 50
MILES
113
112
111
34
33
32
30
36
38
40
45

Figure 2.7



MARICOPA COUNTY, ARIZONA

ISOPLUVIALS 10-YR 6-HR PRECIPITATION IN TENTH OF INCH

NOAA ATLAS 2, Volume VIII

Prepared by U.S. Dept of Commerce
National Oceanic & Atmospheric Administration
National Weather Service, Office of Hydrology

Prepared for U.S. Dept of Agriculture,
Soil Conservation Service, Engineering Division

Figure 2.4

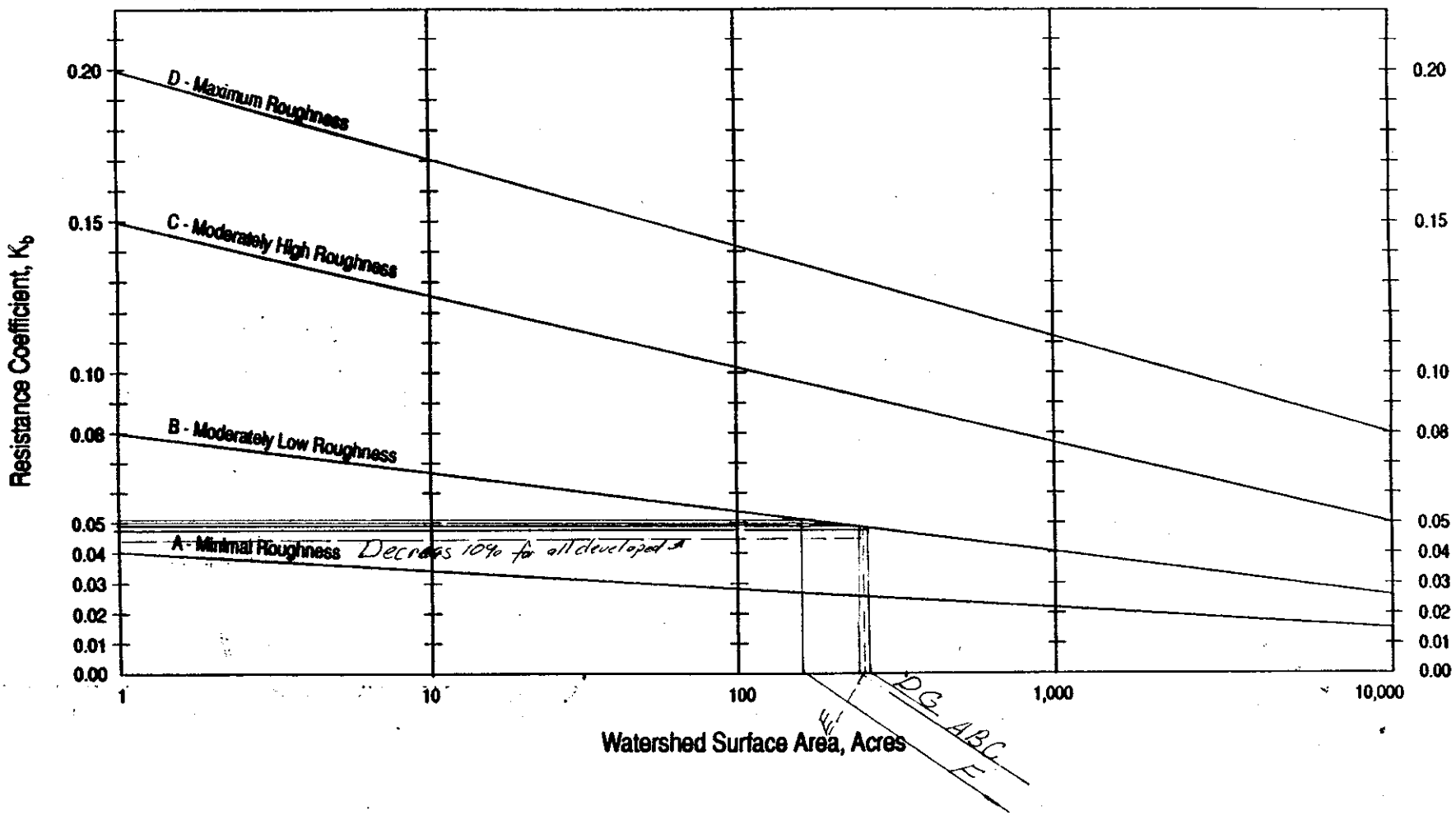


Figure 5.5

Resistance Coefficient "K_b" as a Function of Watershed Size and Surface Roughness Characteristics

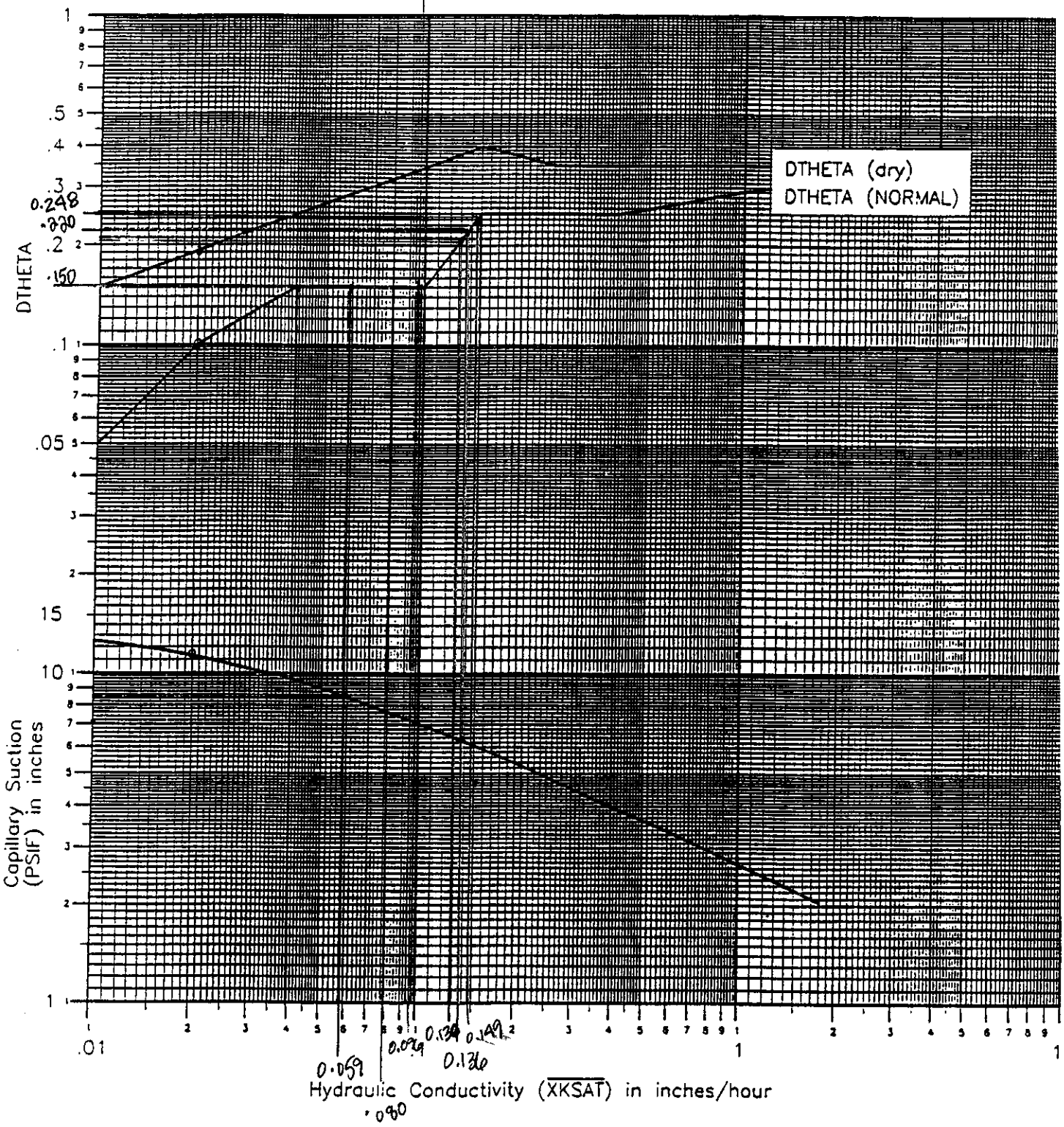
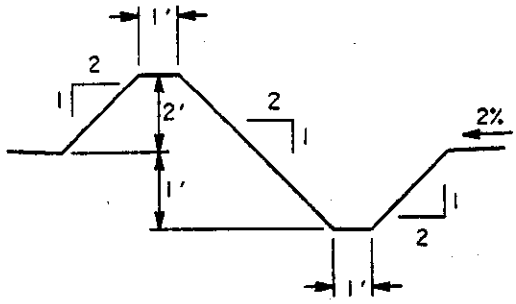
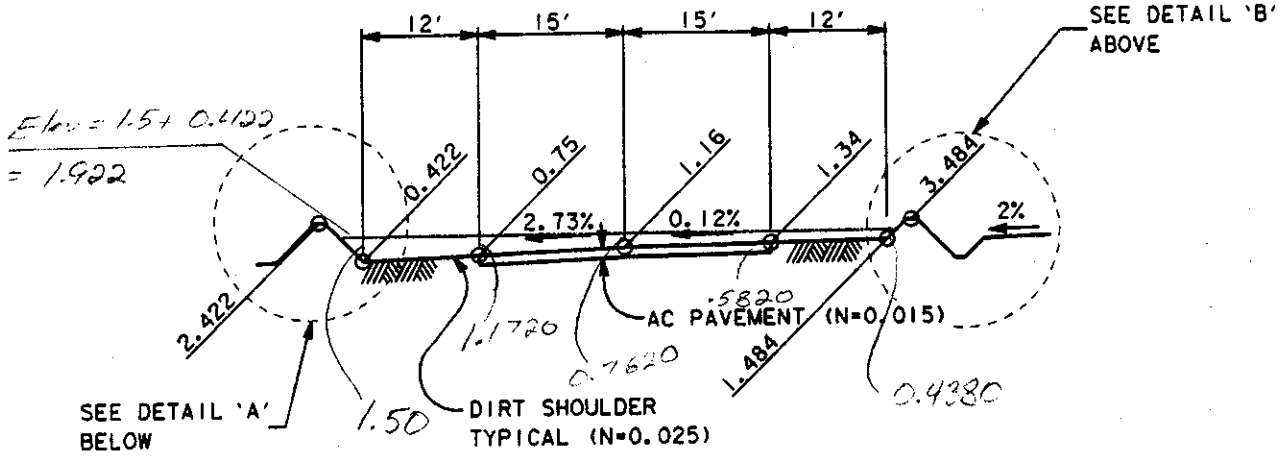


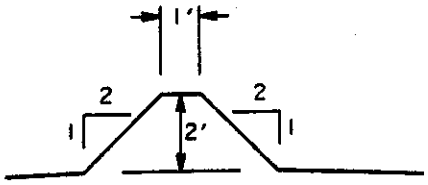
Figure 4.3
Composite Values of PSIF and DTHETA as a function of XKSAT
(To be used for area-weighted averaging of Green and Ampt parameters.)

FLOW SPLIT AT E THOMAS ROAD



DETAIL 'B'
N. T. S.





DETAIL 'A'
N. T. S.

LOOKING U/S (EAST)

LONGITUDINAL SLOPE = 0.0028

PLATE 9

WILLDAN ASSOCIATES
ENGINEERS • PLANNERS
290 S. ANAHEIM BLVD., SUITE 100, ANAHEIM, CA 92805
(714) 774-5740 (213) 924-1631

BY GD DATE 5/23 PROJECT Arroyo Seco SHEET ___ OF ___
CK'D ___ DATE ___ LOCATION Avondale JOB Nº. ___
SUBJECT Hand Calculation to Check Computer Calcs

Assume D = 1.5

W/S @ 0.422 + 1.5 = 1.922'

WP = $((2\times1.5)^2 + 1.5^2)^{1/2}$ + 12 + 15 + 15 + 12 + [(1.922 − 1.484)² + (2×(1.922+1.48

= 3.36 + 54 + .9794 = 58.32

A = (1.50 × 2×1.50)/2 + 12×[(1.5+1.172)/2] + 15[(1.172 + 0.762)/2]
+ 15[(0.762 + 0.582)/2] + 12×[(.5820+.4380)/2] + .4380×2×.4380/2

A = 2.25 + 16.02 + 14.50 + 10.08
6.12 + .1918 = 49.1618 ≈ 49.18 OK

R = 49.18/58.32 = 0.843

n = $[30\times 0.015^{1.5} + 28.32\ .025^{1.5}]^{2/3} / 58.32^{2/3}$ = 0.0202

Q = $\frac{1.486}{0.0205} \times 49.1618 \times 0.843^{2/3} \times .0028^{1/2}$ = 170.77 ≈ 171.07 OK

1.1206 .0524

S = 0.0028 From Topo

Normal Depth Calculations for Thomas Road @ 115th Intersection Flow Split

Thomas @ E

STAGE - DISCHARGE CURVE DATA
Using Composite Roughness

DEPTH	DISCHARGE	VEL	AREA	TOPWIDTH
0.01	0.00	0.09	0.00	0.39
0.02	0.00	0.15	0.01	0.77
0.03	0.00	0.19	0.02	1.16
0.04	0.01	0.23	0.03	1.54
0.05	0.01	0.27	0.05	1.93
0.06	0.02	0.30	0.07	2.32
0.07	0.03	0.34	0.09	2.70
0.08	0.05	0.37	0.12	3.09
0.09	0.06	0.40	0.16	3.47
0.10	0.08	0.43	0.19	3.86
0.11	0.11	0.45	0.23	4.24
0.12	0.13	0.48	0.28	4.63
0.13	0.17	0.51	0.33	5.02
0.14	0.20	0.53	0.38	5.40
0.15	0.24	0.56	0.43	5.79
0.16	0.29	0.58	0.49	6.17
0.17	0.34	0.61	0.56	6.56
0.18	0.39	0.63	0.63	6.95
0.19	0.45	0.65	0.70	7.33
0.20	0.52	0.67	0.77	7.72
0.21	0.59	0.70	0.85	8.10
0.22	0.67	0.72	0.93	8.49
0.23	0.76	0.74	1.02	8.87
0.24	0.85	0.76	1.11	9.26
0.25	0.94	0.78	1.21	9.65
0.26	1.05	0.80	1.30	10.03
0.27	1.16	0.82	1.41	10.42
0.28	1.28	0.84	1.51	10.80
0.29	1.40	0.86	1.62	11.19
0.30	1.54	0.88	1.74	11.58
0.31	1.68	0.90	1.85	11.96
0.32	1.82	0.92	1.98	12.35
0.33	1.98	0.94	2.10	12.73
0.34	2.17	0.97	2.23	13.12
0.35	2.37	1.00	2.36	13.50
0.36	2.57	1.03	2.50	13.89
0.37	2.79	1.06	2.64	14.28
0.38	3.02	1.09	2.79	14.66
0.39	3.27	1.11	2.93	15.05
0.40	3.52	1.14	3.09	15.43
0.41	3.79	1.17	3.24	15.82
0.42	4.07	1.20	3.40	16.21
0.43	4.36	1.22	3.57	16.59
0.44	4.67	1.25	3.74	16.98
0.45	4.99	1.28	3.91	17.36
0.46	5.33	1.30	4.08	17.75
0.47	5.67	1.33	4.26	18.14
0.48	6.04	1.36	4.45	18.52
0.49	6.41	1.38	4.63	18.91
0.50	6.81	1.41	4.82	19.29
0.51	7.21	1.44	5.02	19.68
0.52	7.64	1.46	5.22	20.06
0.53	8.07	1.49	5.42	20.45

0.54	8.53	1.52	5.63	20.84	
0.55	9.00	1.54	5.84	21.22	
0.56	9.48	1.57	6.05	21.61	
0.57	9.98	1.59	6.27	21.99	
0.58	10.50	1.62	6.49	22.38	
0.59	11.04	1.64	6.72	22.77	
0.60	11.59	1.67	6.95	23.15	1
0.61	12.16	1.69	7.18	23.54	
0.62	12.75	1.72	7.42	23.92	
0.63	13.35	1.74	7.66	24.31	
0.64	13.98	1.77	7.90	24.69	
0.65	14.62	1.79	8.15	25.08	
0.66	15.28	1.82	8.40	25.47	
0.67	15.95	1.84	8.66	25.85	
0.68	16.65	1.87	8.92	26.24	
0.69	17.37	1.89	9.19	26.62	
0.70	18.10	1.92	9.45	27.01	2
0.71	18.86	1.94	9.73	27.40	
0.72	19.63	1.96	10.00	27.78	
0.73	20.43	1.99	10.28	28.17	
0.74	21.21	2.01	10.56	28.65	
0.75	21.91	2.02	10.86	29.50	
0.76	22.63	2.03	11.15	30.35	
0.77	23.39	2.04	11.46	31.21	
0.78	24.17	2.05	11.78	32.06	
0.79	24.99	2.06	12.10	32.91	
0.80	25.84	2.08	12.44	33.77	3
0.81	26.72	2.09	12.78	34.62	
0.82	27.63	2.10	13.13	35.47	
0.83	28.58	2.12	13.49	36.33	
0.84	29.56	2.13	13.86	37.18	
0.85	30.57	2.15	14.23	38.03	
0.86	31.62	2.16	14.62	38.89	
0.87	32.70	2.18	15.01	39.74	
0.88	33.82	2.19	15.41	40.59	
0.89	34.97	2.21	15.82	41.45	
0.90	36.16	2.23	16.24	42.30	4
0.91	37.39	2.24	16.67	43.15	
0.92	38.57	2.26	17.10	44.01	
0.93	39.46	2.25	17.55	44.86	
0.94	40.38	2.24	18.00	45.71	
0.95	41.33	2.24	18.46	46.57	
0.96	42.32	2.24	18.93	47.42	
0.97	43.34	2.23	19.41	48.27	
0.98	44.39	2.23	19.90	49.13	
0.99	45.47	2.23	20.39	49.98	
1.00	46.59	2.23	20.90	50.83	5
1.01	47.73	2.23	21.41	51.69	
1.02	48.91	2.23	21.93	52.54	
1.03	50.12	2.23	22.46	53.39	
1.04	51.36	2.23	23.00	54.25	
1.05	52.63	2.24	23.55	55.10	
1.06	53.94	2.24	24.10	55.95	
1.07	55.85	2.26	24.66	56.16	
1.08	57.95	2.30	25.22	56.20	
1.09	60.07	2.33	25.79	56.24	
1.10	62.23	2.36	26.35	56.28	6
1.11	64.41	2.39	26.91	56.32	
1.12	66.62	2.42	27.47	56.36	
1.13	68.87	2.46	28.04	56.40	

1.14	71.14	2.49	28.60	56.44	
1.15	73.44	2.52	29.17	56.48	
1.16	75.77	2.55	29.73	56.52	
1.17	78.13	2.58	30.30	56.56	
1.18	80.52	2.61	30.86	56.60	
1.19	82.94	2.64	31.43	56.64	
1.20	85.38	2.67	32.00	56.68	7
1.21	87.85	2.70	32.56	56.72	
1.22	90.35	2.73	33.13	56.76	
1.23	92.88	2.76	33.70	56.80	
1.24	95.44	2.79	34.27	56.84	
1.25	98.02	2.81	34.83	56.88	
1.26	100.63	2.84	35.40	56.92	
1.27	103.27	2.87	35.97	56.96	
1.28	105.93	2.90	36.54	57.00	
1.29	108.62	2.93	37.11	57.04	
1.30	111.34	2.95	37.68	57.08	8
1.31	114.08	2.98	38.25	57.12	
1.32	116.85	3.01	38.83	57.16	
1.33	119.65	3.04	39.40	57.20	
1.34	122.47	3.06	39.97	57.24	
1.35	125.32	3.09	40.54	57.28	
1.36	128.19	3.12	41.12	57.32	
1.37	131.09	3.14	41.69	57.36	
1.38	134.02	3.17	42.26	57.40	
1.39	136.97	3.20	42.84	57.44	
1.40	139.94	3.22	43.41	57.48	9
1.41	142.94	3.25	43.99	57.52	
1.42	145.97	3.28	44.56	57.56	
1.43	149.02	3.30	45.14	57.60	
1.44	152.10	3.33	45.71	57.64	
1.45	155.20	3.35	46.29	57.68	
1.46	158.32	3.38	46.87	57.72	
1.47	161.47	3.40	47.44	57.76	
1.48	164.65	3.43	48.02	57.80	
1.49	167.84	3.45	48.60	57.84	
1.50	171.07	3.48 See Hand	49.18	57.88	10
1.51	174.31	3.50 Calculation	49.76	57.92	
1.52	177.58	3.53	50.34	57.96	
1.53	180.88	3.55	50.92	58.00	
1.54	184.20	3.58	51.50	58.04	
1.55	187.54	3.60	52.08	58.08	
1.56	190.91	3.63	52.66	58.12	
1.57	194.30	3.65	53.24	58.16	
1.58	197.71	3.67	53.82	58.20	
1.59	201.14	3.70	54.40	58.24	
1.60	204.60	3.72	54.99	58.28	11
1.61	208.09	3.74	55.57	58.32	
1.62	211.59	3.77	56.15	58.36	
1.63	215.12	3.79	56.74	58.40	
1.64	218.67	3.81	57.32	58.44	
1.65	222.25	3.84	57.91	58.48	
1.66	225.85	3.86	58.49	58.52	
1.67	229.47	3.88	59.08	58.56	
1.68	233.11	3.91	59.66	58.60	
1.69	236.78	3.93	60.25	58.64	
1.70	240.47	3.95	60.83	58.68	12
1.71	244.18	3.98	61.42	58.72	
1.72	247.91	4.00	62.01	58.76	
1.73	251.66	4.02	62.60	58.80	

1.74	255.44	4.04	63.18	58.84
1.75	259.24	4.07	63.77	58.88
1.76	263.06	4.09	64.36	58.92
1.77	266.91	4.11	64.95	58.96
1.78	270.77	4.13	65.54	59.00
1.79	274.66	4.15	66.13	59.04
1.80	278.57	4.18	66.72	59.08
1.81	282.50	4.20	67.31	59.12
1.82	286.46	4.22	67.90	59.16
1.83	290.43	4.24	68.50	59.20
1.84	294.43	4.26	69.09	59.24
1.85	298.44	4.28	69.68	59.28
1.86	302.48	4.30	70.27	59.32
1.87	306.54	4.33	70.87	59.36
1.88	310.63	4.35	71.46	59.40
1.89	314.73	4.37	72.05	59.44
1.90	318.85	4.39	72.65	59.48
1.91	323.00	4.41	73.24	59.52
1.92	327.16	4.43	73.84	59.56
1.93	331.35	4.45	74.44	59.60
1.94	335.56	4.47	75.03	59.64
1.95	339.79	4.49	75.63	59.68
1.96	344.04	4.51	76.22	59.72
1.97	348.31	4.53	76.82	59.76
1.98	352.60	4.55	77.42	59.80
1.99	356.92	4.57	78.02	59.84
2.00	361.25	4.60	78.62	59.88

Normal Depth Calculations for 115th at Thomas Road Intersection Flow Split

115th @ E

STAGE - DISCHARGE CURVE DATA
Using Composite Roughness

DEPTH	DISCHARGE	VEL	AREA	TOPWIDTH
0.01	0.00	0.06	0.01	1.69
0.02	0.00	0.09	0.03	3.37
0.03	0.01	0.12	0.08	5.06
0.04	0.02	0.15	0.13	6.75
0.05	0.04	0.17	0.21	8.43
0.06	0.06	0.19	0.30	10.12
0.07	0.09	0.21	0.41	11.81
0.08	0.13	0.24	0.54	13.49
0.09	0.18	0.27	0.68	15.18
0.10	0.25	0.30	0.84	16.87
0.11	0.33	0.33	1.02	18.55
0.12	0.43	0.35	1.21	20.24
0.13	0.54	0.38	1.43	21.93
0.14	0.67	0.41	1.65	23.61
0.15	0.82	0.43	1.90	25.30
0.16	0.99	0.46	2.16	26.99
0.17	2.41	0.49	4.86	54.68
0.18	2.87	0.53	5.41	54.72
0.19	3.37	0.57	5.96	54.76
0.20	3.90	0.60	6.51	54.80
0.21	4.46	0.63	7.05	54.84
0.22	5.05	0.66	7.60	54.88
0.23	5.66	0.69	8.15	54.92
0.24	6.31	0.72	8.70	54.96
0.25	6.98	0.75	9.25	55.00
0.26	7.68	0.78	9.80	55.04
0.27	8.41	0.81	10.35	55.08
0.28	9.16	0.84	10.90	55.12
0.29	9.94	0.87	11.45	55.16
0.30	10.74	0.89	12.01	55.20
0.31	11.57	0.92	12.56	55.24
0.32	12.42	0.95	13.11	55.28
0.33	13.29	0.97	13.66	55.32
0.34	14.19	1.00	14.22	55.36
0.35	15.11	1.02	14.77	55.40
0.36	16.06	1.05	15.33	55.44
0.37	17.02	1.07	15.88	55.48
0.38	18.01	1.10	16.43	55.52
0.39	19.03	1.12	16.99	55.56
0.40	20.06	1.14	17.55	55.60
0.41	21.11	1.17	18.10	55.64
0.42	22.19	1.19	18.66	55.68
0.43	23.29	1.21	19.22	55.72
0.44	24.41	1.23	19.77	55.76
0.45	25.55	1.26	20.33	55.80
0.46	26.71	1.28	20.89	55.84
0.47	27.89	1.30	21.45	55.88
0.48	29.09	1.32	22.01	55.92
0.49	30.31	1.34	22.57	55.96
0.50	31.55	1.36	23.13	56.00
0.51	32.81	1.38	23.69	56.04
0.52	34.08	1.41	24.25	56.08
0.53	35.38	1.43	24.81	56.12

0.54	36.70	1.45	25.37	56.16
0.55	38.04	1.47	25.93	56.20
0.56	39.39	1.49	26.49	56.24
0.57	40.77	1.51	27.06	56.28
0.58	42.16	1.53	27.62	56.32
0.59	43.57	1.55	28.18	56.36
0.60	45.00	1.57	28.75	56.40
0.61	46.45	1.58	29.31	56.44
0.62	47.91	1.60	29.87	56.48
0.63	49.39	1.62	30.44	56.52
0.64	50.90	1.64	31.01	56.56
0.65	52.42	1.66	31.57	56.60
0.66	53.95	1.68	32.14	56.64
0.67	55.51	1.70	32.70	56.68
0.68	57.08	1.72	33.27	56.72
0.69	58.67	1.73	33.84	56.76
0.70	60.27	1.75	34.41	56.80
0.71	61.90	1.77	34.97	56.84
0.72	63.54	1.79	35.54	56.88
0.73	65.19	1.81	36.11	56.92
0.74	66.87	1.82	36.68	56.96
0.75	68.56	1.84	37.25	57.00
0.76	70.26	1.86	37.82	57.04
0.77	71.99	1.88	38.39	57.08
0.78	73.73	1.89	38.96	57.12
0.79	75.49	1.91	39.53	57.16
0.80	77.26	1.93	40.11	57.20
0.81	79.05	1.94	40.68	57.24
0.82	80.85	1.96	41.25	57.28
0.83	82.67	1.98	41.82	57.32
0.84	84.51	1.99	42.40	57.36
0.85	86.36	2.01	42.97	57.40
0.86	88.23	2.03	43.55	57.44
0.87	90.12	2.04	44.12	57.48
0.88	92.02	2.06	44.69	57.52
0.89	93.93	2.07	45.27	57.56
0.90	95.87	2.09	45.85	57.60
0.91	97.81	2.11	46.42	57.64
0.92	99.78	2.12	47.00	57.68
0.93	101.75	2.14	47.58	57.72
0.94	103.75	2.15	48.15	57.76
0.95	105.75	2.17	48.73	57.80
0.96	107.78	2.19	49.31	57.84
0.97	109.82	2.20	49.89	57.88
0.98	111.87	2.22	50.47	57.92
0.99	113.94	2.23	51.05	57.96
1.00	116.02	2.25	51.63	58.00
1.01	118.12	2.26	52.21	58.04
1.02	120.23	2.28	52.79	58.08
1.03	122.36	2.29	53.37	58.12
1.04	124.50	2.31	53.95	58.16
1.05	126.66	2.32	54.53	58.20
1.06	128.83	2.34	55.11	58.24
1.07	131.02	2.35	55.70	58.28
1.08	133.22	2.37	56.28	58.32
1.09	135.43	2.38	56.86	58.36
1.10	137.66	2.40	57.45	58.40
1.11	139.91	2.41	58.03	58.44
1.12	142.17	2.43	58.61	58.48
1.13	144.44	2.44	59.20	58.52

1.14	146.73	2.45	59.79	58.56
1.15	149.03	2.47	60.37	58.60
1.16	151.34	2.48	60.96	58.64
1.17	153.67	2.50	61.54	58.68
1.18	156.01	2.51	62.13	58.72
1.19	158.37	2.53	62.72	58.76
1.20	160.74	2.54	63.31	58.80
1.21	163.12	2.55	63.89	58.84
1.22	165.52	2.57	64.48	58.88
1.23	167.94	2.58	65.07	58.92
1.24	170.36	2.59	65.66	58.96
1.25	172.80	2.61	66.25	59.00
1.26	175.25	2.62	66.84	59.04
1.27	177.72	2.64	67.43	59.08
1.28	180.20	2.65	68.02	59.12
1.29	182.70	2.66	68.61	59.16
1.30	185.20	2.68	69.21	59.20
1.31	187.72	2.69	69.80	59.24
1.32	190.26	2.70	70.39	59.28
1.33	192.81	2.72	70.98	59.32
1.34	195.37	2.73	71.58	59.36
1.35	197.94	2.74	72.17	59.40
1.36	200.53	2.76	72.77	59.44
1.37	203.13	2.77	73.36	59.48
1.38	205.74	2.78	73.95	59.52
1.39	208.37	2.80	74.55	59.56
1.40	211.01	2.81	75.15	59.60
1.41	213.67	2.82	75.74	59.64
1.42	216.33	2.83	76.34	59.68
1.43	219.01	2.85	76.94	59.72
1.44	221.70	2.86	77.53	59.76
1.45	224.41	2.87	78.13	59.80
1.46	227.13	2.88	78.73	59.84
1.47	229.86	2.90	79.33	59.88
1.48	232.60	2.91	79.93	59.92
1.49	235.36	2.92	80.53	59.96
1.50	238.13	2.94	81.13	60.00
1.51	240.91	2.95	81.73	60.04
1.52	243.71	2.96	82.33	60.08
1.53	246.52	2.97	82.93	60.12
1.54	249.34	2.99	83.53	60.16
1.55	252.17	3.00	84.13	60.20
1.56	255.02	3.01	84.73	60.24
1.57	257.88	3.02	85.34	60.28
1.58	260.75	3.03	85.94	60.32
1.59	263.63	3.05	86.54	60.36
1.60	266.53	3.06	87.15	60.40
1.61	269.44	3.07	87.75	60.44
1.62	272.36	3.08	88.35	60.48
1.63	275.29	3.09	88.96	60.52
1.64	278.24	3.11	89.57	60.56
1.65	281.20	3.12	90.17	60.60
1.66	284.17	3.13	90.78	60.64
1.67	287.15	3.14	91.38	60.68
1.68	290.15	3.15	91.99	60.72
1.69	293.15	3.17	92.60	60.76
1.70	296.17	3.18	93.21	60.80
1.71	299.21	3.19	93.81	60.84
1.72	302.25	3.20	94.42	60.88
1.73	305.31	3.21	95.03	60.92

1.74	308.38	3.22	95.64	60.96
1.75	311.46	3.24	96.25	61.00
1.76	314.55	3.25	96.86	61.04
1.77	317.66	3.26	97.47	61.08
1.78	320.77	3.27	98.08	61.12
1.79	323.90	3.28	98.69	61.16
1.80	327.04	3.29	99.31	61.20
1.81	330.20	3.30	99.92	61.24
1.82	333.36	3.32	100.53	61.28
1.83	336.54	3.33	101.14	61.32
1.84	339.73	3.34	101.76	61.36
1.85	342.93	3.35	102.37	61.40
1.86	346.14	3.36	102.99	61.44
1.87	349.36	3.37	103.60	61.48
1.88	352.60	3.38	104.21	61.52
1.89	355.85	3.39	104.83	61.56
1.90	359.11	3.41	105.45	61.60
1.91	362.38	3.42	106.06	61.64
1.92	365.66	3.43	106.68	61.68
1.93	368.96	3.44	107.30	61.72
1.94	372.27	3.45	107.91	61.76
1.95	375.59	3.46	108.53	61.80
1.96	378.92	3.47	109.15	61.84
1.97	382.26	3.48	109.77	61.88
1.98	385.61	3.49	110.39	61.92
1.99	388.98	3.50	111.01	61.96
2.00	392.35	3.51	111.63	62.00

Normal Depth Calculations for McDowell Road
At 115th Intersection Flow Split
McDowell @ F

STAGE - DISCHARGE CURVE DATA
Using Composite Roughness

DEPTH	DISCHARGE	VEL	AREA	TOPWIDTH
0.01	0.00	0.09	0.00	0.71
0.02	0.00	0.14	0.01	1.42
0.03	0.01	0.18	0.03	2.13
0.04	0.01	0.22	0.06	2.84
0.05	0.02	0.26	0.09	3.55
0.06	0.04	0.29	0.13	4.26
0.07	0.06	0.32	0.17	4.97
0.08	0.08	0.35	0.23	5.68
0.09	0.11	0.38	0.29	6.39
0.10	0.15	0.41	0.35	7.10
0.11	0.19	0.44	0.43	7.81
0.12	0.24	0.46	0.51	8.52
0.13	0.29	0.49	0.60	9.23
0.14	0.36	0.51	0.70	9.94
0.15	0.43	0.54	0.80	10.64
0.16	0.51	0.56	0.91	11.35
0.17	0.60	0.58	1.03	12.06
0.18	0.70	0.61	1.15	12.77
0.19	0.81	0.63	1.28	13.48
0.20	0.92	0.65	1.42	14.19
0.21	1.05	0.67	1.56	14.90
0.22	1.19	0.69	1.72	15.61
0.23	1.34	0.72	1.88	16.32
0.24	1.50	0.74	2.04	17.03
0.25	1.68	0.76	2.22	17.74
0.26	1.86	0.78	2.40	18.45
0.27	2.06	0.80	2.59	19.16
0.28	2.27	0.82	2.78	19.87
0.29	2.49	0.83	2.98	20.58
0.30	2.76	0.86	3.19	21.29
0.31	3.04	0.89	3.41	21.99
0.32	3.35	0.92	3.63	22.70
0.33	3.67	0.95	3.86	23.40
0.34	4.01	0.98	4.10	24.11
0.35	4.38	1.01	4.35	24.81
0.36	4.76	1.04	4.60	25.52
0.37	5.16	1.06	4.86	26.23
0.38	5.59	1.09	5.12	26.93
0.39	6.03	1.12	5.39	27.64
0.40	6.50	1.15	5.67	28.34
0.41	7.00	1.17	5.96	29.05
0.42	7.51	1.20	6.26	29.75
0.43	8.05	1.23	6.56	30.46
0.44	8.62	1.25	6.87	31.17
0.45	9.20	1.28	7.18	31.87
0.46	9.82	1.31	7.50	32.58
0.47	10.46	1.34	7.83	33.28
0.48	11.12	1.36	8.17	33.99
0.49	11.81	1.39	8.51	34.69
0.50	12.53	1.41	8.86	35.40
0.51	13.28	1.44	9.22	36.11
0.52	14.05	1.47	9.58	36.81
0.53	14.85	1.49	9.96	37.52

0.54	15.68	1.52	10.33	38.22	
0.55	16.54	1.54	10.72	38.93	
0.56	17.43	1.57	11.11	39.63	
0.57	18.35	1.59	11.51	40.34	
0.58	19.29	1.62	11.92	41.05	
0.59	20.27	1.64	12.33	41.75	
0.60	21.28	1.67	12.75	42.46	2
0.61	22.32	1.69	13.18	43.16	
0.62	23.40	1.72	13.62	43.87	
0.63	24.50	1.74	14.06	44.57	
0.64	25.64	1.77	14.51	45.28	
0.65	26.86	1.79	14.96	45.80	
0.66	28.10	1.82	15.43	46.32	
0.67	29.38	1.85	15.89	46.84	
0.68	30.69	1.88	16.36	47.36	
0.69	32.03	1.90	16.84	47.87	
0.70	33.41	1.93	17.32	48.39	3
0.71	34.81	1.96	17.81	48.91	
0.72	36.25	1.98	18.30	49.43	
0.73	37.72	2.01	18.79	49.95	
0.74	39.23	2.03	19.30	50.47	
0.75	40.76	2.06	19.80	50.99	
0.76	42.33	2.08	20.32	51.51	
0.77	43.94	2.11	20.83	52.03	
0.78	45.58	2.13	21.36	52.55	
0.79	47.25	2.16	21.89	53.06	
0.80	48.96	2.18	22.42	53.58	4
0.81	50.70	2.21	22.96	54.10	
0.82	52.47	2.23	23.50	54.62	
0.83	54.28	2.26	24.05	55.14	
0.84	56.13	2.28	24.60	55.66	
0.85	58.01	2.31	25.16	56.18	
0.86	59.93	2.33	25.73	56.70	
0.87	61.88	2.35	26.30	57.22	
0.88	63.87	2.38	26.87	57.74	
0.89	65.90	2.40	27.45	58.25	
0.90	67.96	2.42	28.04	58.77	5
0.91	70.06	2.45	28.63	59.29	
0.92	72.19	2.47	29.22	59.81	
0.93	74.37	2.49	29.82	60.33	
0.94	76.58	2.52	30.43	60.85	
0.95	78.83	2.54	31.04	61.37	
0.96	81.11	2.56	31.66	61.89	
0.97	83.44	2.58	32.28	62.41	
0.98	85.80	2.61	32.90	62.92	
0.99	88.20	2.63	33.54	63.44	
1.00	90.64	2.65	34.17	63.96	6
1.01	93.12	2.67	34.82	64.48	
1.02	95.64	2.70	35.46	65.00	
1.03	98.19	2.72	36.12	65.52	
1.04	100.79	2.74	36.77	66.04	
1.05	103.43	2.76	37.44	66.56	
1.06	106.11	2.78	38.10	67.08	
1.07	108.82	2.81	38.78	67.60	
1.08	111.58	2.83	39.46	68.11	
1.09	114.38	2.85	40.14	68.63	
1.10	117.22	2.87	40.83	69.15	7
1.11	120.10	2.89	41.52	69.67	
1.12	123.02	2.91	42.22	70.19	
1.13	125.54	2.92	42.93	70.71	

1.14	128.03	2.93	43.64	71.23	
1.15	130.55	2.94	44.35	71.75	
1.16	133.10	2.95	45.07	72.27	
1.17	135.68	2.96	45.80	72.80	
1.18	138.29	2.97	46.53	73.32	
1.19	140.93	2.98	47.26	73.84	
1.20	143.60	2.99	48.00	74.36	8
1.21	146.30	3.00	48.75	74.88	
1.22	149.03	3.01	49.50	75.40	
1.23	151.78	3.02	50.26	75.92	
1.24	154.57	3.03	51.02	76.44	
1.25	157.39	3.04	51.79	76.97	
1.26	160.24	3.05	52.56	77.49	
1.27	163.12	3.06	53.34	78.01	
1.28	166.02	3.07	54.12	78.53	
1.29	168.96	3.08	54.91	79.05	
1.30	171.93	3.09	55.70	79.57	9
1.31	174.94	3.10	56.50	80.09	
1.32	177.97	3.11	57.30	80.61	
1.33	181.03	3.12	58.11	81.14	
1.34	184.13	3.12	58.93	81.66	
1.35	187.25	3.13	59.74	82.18	
1.36	190.41	3.14	60.57	82.70	
1.37	193.60	3.15	61.40	83.22	
1.38	196.82	3.16	62.23	83.74	
1.39	200.08	3.17	63.07	84.26	
1.40	203.36	3.18	63.92	84.78	10
1.41	206.68	3.19	64.77	85.31	
1.42	210.03	3.20	65.62	85.83	
1.43	213.41	3.21	66.49	86.35	
1.44	216.82	3.22	67.35	86.87	
1.45	220.27	3.23	68.22	87.39	
1.46	223.75	3.24	69.10	87.91	
1.47	227.26	3.25	69.98	88.43	
1.48	230.81	3.26	70.87	88.95	
1.49	234.39	3.27	71.76	89.48	
1.50	238.00	3.28	72.66	90.00	11
1.51	241.64	3.28	73.56	90.52	
1.52	245.32	3.29	74.47	91.04	
1.53	250.23	3.32	75.38	91.08	
1.54	255.17	3.34	76.29	91.12	
1.55	260.15	3.37	77.20	91.16	
1.56	265.18	3.39	78.11	91.20	
1.57	270.24	3.42	79.03	91.24	
1.58	275.33	3.44	79.94	91.28	
1.59	280.47	3.47	80.85	91.32	
1.60	285.64	3.49	81.76	91.36	12
1.61	290.85	3.52	82.68	91.40	
1.62	296.09	3.54	83.59	91.44	
1.63	301.38	3.57	84.51	91.48	
1.64	306.70	3.59	85.42	91.52	
1.65	312.05	3.61	86.34	91.56	
1.66	317.45	3.64	87.25	91.60	
1.67	322.88	3.66	88.17	91.64	
1.68	328.34	3.69	89.09	91.68	
1.69	333.85	3.71	90.00	91.72	
1.70	339.38	3.73	90.92	91.76	15
1.71	344.96	3.76	91.84	91.80	
1.72	350.57	3.78	92.76	91.84	
1.73	356.21	3.80	93.67	91.88	

1.74	361.90	3.83	94.59	91.92	
1.75	367.61	3.85	95.51	91.96	
1.76	373.37	3.87	96.43	92.00	
1.77	379.15	3.89	97.35	92.04	
1.78	384.98	3.92	98.27	92.08	
1.79	390.83	3.94	99.19	92.12	
1.80	396.73	3.96	100.12	92.16	14
1.81	402.65	3.99	101.04	92.20	
1.82	408.62	4.01	101.96	92.24	
1.83	414.61	4.03	102.88	92.28	
1.84	420.64	4.05	103.81	92.32	
1.85	426.71	4.07	104.73	92.36	
1.86	432.81	4.10	105.65	92.40	
1.87	438.94	4.12	106.58	92.44	
1.88	445.11	4.14	107.50	92.48	
1.89	451.31	4.16	108.43	92.52	
1.90	457.55	4.18	109.35	92.56	15
1.91	463.82	4.21	110.28	92.60	
1.92	470.12	4.23	111.20	92.64	
1.93	476.46	4.25	112.13	92.68	
1.94	482.83	4.27	113.06	92.72	
1.95	489.23	4.29	113.99	92.76	
1.96	495.67	4.31	114.91	92.80	
1.97	502.13	4.33	115.84	92.84	
1.98	508.64	4.36	116.77	92.88	
1.99	515.17	4.38	117.70	92.92	
2.00	521.74	4.40	118.63	92.96	16

Normal Depth Calculations for 115th At McDowell Road Flow Split

115th @ F

STAGE - DISCHARGE CURVE DATA
Using Composite Roughness

DEPTH	DISCHARGE	VEL	AREA	TOPWIDTH
0.01	0.00	0.11	0.00	0.39
0.02	0.00	0.17	0.01	0.79
0.03	0.00	0.23	0.02	1.18
0.04	0.01	0.28	0.03	1.58
0.05	0.02	0.32	0.05	1.97
0.06	0.03	0.36	0.07	2.37
0.07	0.04	0.40	0.10	2.76
0.08	0.06	0.44	0.13	3.16
0.09	0.08	0.47	0.16	3.55
0.10	0.10	0.51	0.20	3.95
0.11	0.13	0.54	0.24	4.34
0.12	0.16	0.57	0.28	4.74
0.13	0.20	0.61	0.33	5.13
0.14	0.25	0.64	0.39	5.53
0.15	0.30	0.67	0.44	5.93
0.16	0.35	0.70	0.51	6.32
0.17	0.41	0.72	0.57	6.72
0.18	0.48	0.75	0.64	7.11
0.19	0.56	0.78	0.71	7.51
0.20	0.64	0.81	0.79	7.90
0.21	0.73	0.83	0.87	8.30
0.22	0.82	0.86	0.96	8.69
0.23	0.92	0.89	1.04	9.09
0.24	1.04	0.91	1.14	9.48
0.25	1.16	0.94	1.23	9.88
0.26	1.28	0.96	1.34	10.27
0.27	1.42	0.99	1.44	10.67
0.28	1.56	1.01	1.55	11.06
0.29	1.72	1.03	1.66	11.45
0.30	1.88	1.06	1.78	11.85
0.31	2.05	1.08	1.90	12.24
0.32	2.23	1.10	2.02	12.64
0.33	2.45	1.14	2.15	13.03
0.34	2.68	1.17	2.28	13.43
0.35	2.92	1.21	2.42	13.82
0.36	3.17	1.24	2.56	14.22
0.37	3.44	1.27	2.70	14.61
0.38	3.73	1.31	2.85	15.01
0.39	4.03	1.34	3.00	15.40
0.40	4.34	1.37	3.16	15.80
0.41	4.67	1.41	3.32	16.19
0.42	5.02	1.44	3.48	16.59
0.43	5.38	1.47	3.65	16.98
0.44	5.76	1.51	3.82	17.38
0.45	6.15	1.54	4.00	17.77
0.46	6.56	1.57	4.18	18.17
0.47	6.99	1.60	4.36	18.56
0.48	7.44	1.63	4.55	18.96
0.49	7.90	1.67	4.74	19.35
0.50	8.39	1.70	4.94	19.75
0.51	8.89	1.73	5.14	20.14
0.52	9.41	1.76	5.34	20.54
0.53	9.94	1.79	5.55	20.93

0.54	10.50	1.82	5.76	21.33
0.55	11.08	1.85	5.97	21.72
0.56	11.68	1.89	6.19	22.12
0.57	12.29	1.92	6.42	22.51
0.58	12.93	1.95	6.64	22.91
0.59	13.59	1.98	6.87	23.30
0.60	14.27	2.01	7.11	23.70
0.61	14.97	2.04	7.35	24.09
0.62	15.69	2.07	7.59	24.49
0.63	16.44	2.10	7.84	24.88
0.64	17.20	2.13	8.09	25.28
0.65	17.99	2.16	8.34	25.67
0.66	18.80	2.19	8.60	26.07
0.67	19.64	2.21	8.87	26.46
0.68	20.49	2.24	9.13	26.86
0.69	21.37	2.27	9.40	27.25
0.70	22.28	2.30	9.68	27.65
0.71	23.21	2.33	9.96	28.04
0.72	24.16	2.36	10.24	28.44
0.73	24.61	1.82	13.51	55.88
0.74	26.31	1.87	14.07	55.92
0.75	28.06	1.92	14.63	55.96
0.76	29.85	1.97	15.19	56.00
0.77	31.68	2.01	15.75	56.04
0.78	33.56	2.06	16.31	56.08
0.79	35.48	2.10	16.87	56.12
0.80	37.44	2.15	17.43	56.16
0.81	39.44	2.19	17.99	56.20
0.82	41.49	2.24	18.55	56.24
0.83	43.57	2.28	19.12	56.28
0.84	45.70	2.32	19.68	56.32
0.85	47.86	2.36	20.24	56.36
0.86	50.07	2.41	20.81	56.40
0.87	52.31	2.45	21.37	56.44
0.88	54.60	2.49	21.94	56.48
0.89	56.92	2.53	22.50	56.52
0.90	59.28	2.57	23.07	56.56
0.91	61.68	2.61	23.63	56.60
0.92	64.11	2.65	24.20	56.64
0.93	66.58	2.69	24.76	56.68
0.94	69.09	2.73	25.33	56.72
0.95	71.64	2.77	25.90	56.76
0.96	74.22	2.80	26.47	56.80
0.97	76.84	2.84	27.03	56.84
0.98	79.50	2.88	27.60	56.88
0.99	82.19	2.92	28.17	56.92
1.00	84.91	2.95	28.74	56.96
1.01	87.67	2.99	29.31	57.00
1.02	90.47	3.03	29.88	57.04
1.03	93.30	3.06	30.45	57.08
1.04	96.16	3.10	31.02	57.12
1.05	99.06	3.14	31.59	57.16
1.06	101.99	3.17	32.17	57.20
1.07	104.96	3.21	32.74	57.24
1.08	107.96	3.24	33.31	57.28
1.09	110.99	3.28	33.88	57.32
1.10	114.06	3.31	34.46	57.36
1.11	117.16	3.34	35.03	57.40
1.12	120.29	3.38	35.60	57.44
1.13	123.46	3.41	36.18	57.48

1.14	126.65	3.45	36.75	57.52
1.15	129.88	3.48	37.33	57.56
1.16	133.14	3.51	37.91	57.60
1.17	136.44	3.55	38.48	57.64
1.18	139.76	3.58	39.06	57.68
1.19	143.12	3.61	39.64	57.72
1.20	146.51	3.64	40.21	57.76
1.21	149.92	3.68	40.79	57.80
1.22	153.37	3.71	41.37	57.84
1.23	156.86	3.74	41.95	57.88
1.24	160.37	3.77	42.53	57.92
1.25	163.91	3.80	43.11	57.96
1.26	167.48	3.83	43.69	58.00
1.27	171.09	3.86	44.27	58.04
1.28	174.72	3.90	44.85	58.08
1.29	178.38	3.93	45.43	58.12
1.30	182.08	3.96	46.01	58.16
1.31	185.80	3.99	46.59	58.20
1.32	189.55	4.02	47.17	58.24
1.33	193.33	4.05	47.75	58.28
1.34	197.15	4.08	48.34	58.32
1.35	200.99	4.11	48.92	58.36
1.36	204.86	4.14	49.50	58.40
1.37	208.76	4.17	50.09	58.44
1.38	212.69	4.20	50.67	58.48
1.39	216.64	4.23	51.26	58.52
1.40	220.63	4.26	51.84	58.56
1.41	224.64	4.28	52.43	58.60
1.42	228.69	4.31	53.02	58.64
1.43	232.76	4.34	53.60	58.68
1.44	236.86	4.37	54.19	58.72
1.45	240.99	4.40	54.78	58.76
1.46	245.14	4.43	55.36	58.80
1.47	249.33	4.46	55.95	58.84
1.48	253.54	4.48	56.54	58.88
1.49	257.78	4.51	57.13	58.92
1.50	262.05	4.54	57.72	58.96
1.51	266.34	4.57	58.31	59.00
1.52	270.66	4.60	58.90	59.04
1.53	275.01	4.62	59.49	59.08
1.54	279.39	4.65	60.08	59.12
1.55	283.80	4.68	60.67	59.16
1.56	288.23	4.70	61.26	59.20
1.57	292.69	4.73	61.86	59.24
1.58	297.17	4.76	62.45	59.28
1.59	301.69	4.79	63.04	59.32
1.60	306.23	4.81	63.64	59.36
1.61	310.79	4.84	64.23	59.40
1.62	315.38	4.87	64.82	59.44
1.63	320.00	4.89	65.42	59.48
1.64	324.65	4.92	66.01	59.52
1.65	329.32	4.94	66.61	59.56
1.66	334.02	4.97	67.20	59.60
1.67	338.74	5.00	67.80	59.64
1.68	343.50	5.02	68.40	59.68
1.69	348.27	5.05	68.99	59.72
1.70	353.07	5.07	69.59	59.76
1.71	357.90	5.10	70.19	59.80
1.72	362.76	5.12	70.79	59.84
1.73	367.64	5.15	71.39	59.88

1.74	372.54	5.18	71.98	59.92
1.75	377.48	5.20	72.58	59.96
1.76	382.43	5.23	73.18	60.00
1.77	387.42	5.25	73.78	60.04
1.78	392.42	5.28	74.38	60.08
1.79	397.46	5.30	74.98	60.12
1.80	402.52	5.33	75.59	60.16
1.81	407.60	5.35	76.19	60.20
18 1.82	412.71	5.37	76.79	60.24
1.83	417.84	5.40	77.39	60.28
1.84	423.00	5.42	78.00	60.32
1.85	428.19	5.45	78.60	60.36
1.86	433.40	5.47	79.20	60.40
1.87	438.63	5.50	79.81	60.44
1.88	443.89	5.52	80.41	60.48
1.89	449.17	5.54	81.02	60.52
1.90	454.48	5.57	81.62	60.56
1.91	459.81	5.59	82.23	60.60
19 1.92	465.17	5.62	82.83	60.64
1.93	470.55	5.64	83.44	60.68
1.94	475.96	5.66	84.05	60.72
1.95	481.39	5.69	84.65	60.76
1.96	486.84	5.71	85.26	60.80
1.97	492.32	5.73	85.87	60.84
1.98	497.83	5.76	86.48	60.88
1.99	503.35	5.78	87.09	60.92
2.00	508.91	5.80	87.70	60.96

McDowell Road Culvert Hydraulics

STORM DRAIN ANALYSIS PLUS

Q= 12.5x2=25

Original version by Los Angeles County Public Works

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Version 1.20

Serial Number 07010156

Nov 7, 1996 18:50:57

Input file : C:\HYDR\SP\MCDHDR.DAT

Output file: C:\HYDR\SP\MC12.OUT

INPUT FILE LISTING

```
T1  McDowell Road Culvert Hydraulics
T2  FILENAME  mcdohdr.dat  Note flow in this run should be doubled
T3  Gerard Dalziel
SO    100.00 975.61  1      .013
WX    100.00 975.61 60      .013
R     265.00 977.13 60      .013
WE    265.00 977.13  2      .013
SH                   2      .013
```

WATER SURFACE PROFILE - CHANNEL DEFINITION LISTING

CARD CODE	SECT NO	CHN TYPE	NO OF PIERS	AVE PIER WIDTH	HEIGHT 1 DIAMETER	BASE WIDTH	ZL	ZR	INV DROP	Y(1)	Y(2)	Y(3)	Y(4)	Y(5)	Y(6)	Y(7)	Y(8)	Y(9)	Y(10)
CD	1	1	0	.00	6.00	15.00	2.00	2.00	.00										
CD	60	4			5.00														
CD	2	2	0	.00	5.00	100.00			.00										

WATER SURFACE PROFILE - TITLE CARD LISTING

HEADING LINE NO 1 IS -

McDowell Road Culvert Hydraulics

HEADING LINE NO 2 IS -

FILENAME mcdohdr.dat Note flow in this run should be doubled

HEADING LINE NO 3 IS -

Gerard Dalziel

WATER SURFACE PROFILE - ELEMENT CARD LISTING

```
ELEMENT NO   1 IS A SYSTEM OUTLET     *         *     *
                U/S DATA   STATION    INVERT  SECT                                W S ELEV
                             100.00  975.61    1                                     .00

ELEMENT NO   2 IS A  WALL  EXIT                     *
                U/S DATA   STATION    INVERT  SECT
                             100.00  975.61   60

ELEMENT NO   3 IS A REACH             *         *     *
                U/S DATA   STATION    INVERT  SECT            N                   RADIUS  ANGLE  ANG PT  MAN H
                             265.00  977.13   60            .013                     .00    .00     .00     0

ELEMENT NO   4 IS A  WALL  ENTRANCE                 *
                U/S DATA   STATION    INVERT  SECT           FP
                             265.00  977.13    2            .013

ELEMENT NO   5 IS A SYSTEM HEADWORKS                *                    *
                U/S DATA   STATION    INVERT  SECT                                W S ELEV
                             265.00  977.13    2                                     .00
NO EDIT ERRORS ENCOUNTERED-COMPUTATION IS NOW BEGINNING

** WARNING NO. 2 ** - WATER SURFACE ELEVATION GIVEN IS LESS THAN OR EQUALS INVERT ELEVATION IN HDWKDS, W.S.ELEV = INV + DC
```

WATER SURFACE PROFILE LISTING

McDowell Road Culvert Hydraulics

FILENAME mcdohdr.dat Note flow in this run should be doubled

Gerard Dalziel

STATION	INVERT ELEV	DEPTH OF FLOW	W.S. ELEV	Q	VEL	VEL HEAD	ENERGY GRD.EL.	SUPER ELEV	CRITICAL DEPTH		HGT/ DIA	BASE/ ID NO.	ZL	NO PIER	AVBPR
L/ELEM	SO					SF AVE	HF			NORM DEPTH			ZR		
100.00	975.61	.10	975.71	12.5	8.05	1.01	976.72	.00	.28		6.00	15.00	2.00	0	.00
WALL EXIT													2.00		
100.00	975.61	.76	976.37	12.5	6.64	.69	977.06	.00	.97		5.00	.00	.00	0	.00
WALL EXIT													.00		
100.00	975.61	.76	976.37	12.5	6.64	.69	977.06	.00	.97		5.00	.00	.00	0	.00
27.02	.00921					.00923	.25			.76			.00		
127.02	975.86	.76	976.62	12.5	6.64	.69	977.30	.00	.97		5.00	.00	.00	0	.00
72.42	.00921					.00901	.65			.76			.00		
199.44	976.53	.77	977.29	12.5	6.53	.66	977.96	.00	.97		5.00	.00	.00	0	.00
35.23	.00921					.00824	.29			.76			.00		
234.67	976.85	.79	977.64	12.5	6.23	.60	978.25	.00	.97		5.00	.00	.00	0	.00
13.78	.00921					.00720	.10			.76			.00		
248.45	976.98	.82	977.80	12.5	5.94	.55	978.35	.00	.97		5.00	.00	.00	0	.00
7.78	.00921					.00629	.05			.76			.00		
256.23	977.05	.85	977.90	12.5	5.66	.50	978.40	.00	.97		5.00	.00	.00	0	.00
4.37	.00921					.00549	.02			.76			.00		
260.60	977.09	.88	977.97	12.5	5.40	.45	978.42	.00	.97		5.00	.00	.00	0	.00
2.75	.00921					.00479	.01			.76			.00		
263.35	977.11	.91	978.02	12.5	5.15	.41	978.43	.00	.97		5.00	.00	.00	0	.00
1.27	.00921					.00419	.01			.76			.00		
264.62	977.13	.94	978.06	12.5	4.91	.37	978.44	.00	.97		5.00	.00	.00	0	.00
.38	.00921					.00365	.00			.76			.00		

WATER SURFACE PROFILE LISTING

McDowell Road Culvert Hydraulics

FILENAME mcdohdr.dat Note flow in this run should be doubled

Gerard Dalziel

STATION	INVERT ELEV	DEPTH OF FLOW	W.S. ELEV	Q	VEL	VEL HEAD	ENERGY GRD.EL.	SUPER ELEV	CRITICAL DEPTH	HGT/ DIA	BASE/ ID NO.	ZL	NO PIER	AVBPR
L/ELEM	SO					SF AVE	HF		NORM DEPTH			ZR		
265.00	977.13	.97	978.10	12.5	4.67	.34	978.44	.00	.97	5.00	.00	.00	0	.00
WALL ENTRANCE												.00		
265.00	977.13	1.46	978.59	12.5	.09	.00	978.59	.00	.08	5.00	100.00	.00	0	.00

STORM DRAIN ANALYSIS PLUS

Q = 25 × 2 = 50

Original version by Los Angeles County Public Works
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Version 1.20
Serial Number 07010156

Nov 7, 1996 18:35:39

Input file : C:\HYDR\SP\MCDHDR.DAT
Output file: C:\HYDR\SP\MC50.OUT

INPUT FILE LISTING

```
T1  McDowell Road Culvert Hydraulics
T2  FILENAME  mcdohdr.dat  Note flow in this run should be doubled
T3  Gerard Dalziel
SO    100.00 975.61  1      .013
WX    100.00 975.61 60      .013
R     265.00 977.13 60      .013
WE    265.00 977.13  2      .013
SH                   2      .013
```

WATER SURFACE PROFILE - CHANNEL DEFINITION LISTING

CARD CODE	SECT NO	CHN TYPE	NO OF PIERS	AVE PIER WIDTH	HEIGHT 1 DIAMETER	BASE WIDTH	ZL	ZR	INV DROP	Y(1)	Y(2)	Y(3)	Y(4)	Y(5)	Y(6)	Y(7)	Y(8)	Y(9)	Y(10)
CD	1	1	0	.00	6.00	15.00	2.00	2.00	.00										
CD	60	4			5.00														
CD	2	2	0	.00	5.00	100.00			.00										

WATER SURFACE PROFILE - TITLE CARD LISTING

HEADING LINE NO 1 IS -

McDowell Road Culvert Hydraulics

HEADING LINE NO 2 IS -

FILENAME mcdohdr.dat Note flow in this run should be doubled

HEADING LINE NO 3 IS -

Gerard Dalziel

WATER SURFACE PROFILE - ELEMENT CARD LISTING

```
ELEMENT NO   1 IS A SYSTEM OUTLET     *        *     *
                U/S DATA   STATION    INVERT  SECT                                W S ELEV
                             100.00  975.61    1                                      .00

ELEMENT NO   2 IS A  WALL  EXIT                     *
                U/S DATA   STATION    INVERT  SECT
                             100.00  975.61   60

ELEMENT NO   3 IS A REACH             *        *     *
                U/S DATA   STATION    INVERT  SECT            N                   RADIUS  ANGLE  ANG PT  MAN H
                             265.00  977.13   60            .013                     .00    .00     .00     0

ELEMENT NO   4 IS A  WALL  ENTRANCE                 *
                U/S DATA   STATION    INVERT  SECT           FP
                             265.00  977.13    2            .013

ELEMENT NO   5 IS A SYSTEM HEADWORKS                *                     *
                U/S DATA   STATION    INVERT  SECT                                W S ELEV
                             265.00  977.13    2                                      .00
NO EDIT ERRORS ENCOUNTERED-COMPUTATION IS NOW BEGINNING

** WARNING NO. 2 ** - WATER SURFACE ELEVATION GIVEN IS LESS THAN OR EQUALS INVERT ELEVATION IN HDWKDS, W.S.ELEV = INV + DC
```

WATER SURFACE PROFILE LISTING

McDowell Road Culvert Hydraulics

FILENAME mcdohdr.dat Note flow in this run should be *doubled*

Gerard Dalziel

STATION	INVERT ELEV	DEPTH OF FLOW	W.S. ELEV	Q	VEL	VEL HEAD	ENERGY GRD.EL.	SUPER ELEV	CRITICAL DEPTH		HGT/ DIA	BASE/ ID NO.	ZL	NO PIER	AVBPR
L/ELEM	SO					SF AVE	HF			NORM DEPTH			ZR		
100.00	975.61	.17	975.78	25.0	9.74	1.48	977.25	.00	.43		6.00	15.00	2.00	0	.00
WALL EXIT													2.00		
100.00	975.61	1.07	976.68	25.0	8.12	1.03	977.71	.00	1.38		5.00	.00	.00	0	.00
WALL EXIT													.00		
100.00	975.61	1.07	976.68	25.0	8.12	1.03	977.71	.00	1.38		5.00	.00	.00	0	.00
86.39	.00921					.00879	.76			1.07			.00		
186.39	976.41	1.09	977.50	25.0	7.89	.97	978.46	.00	1.38		5.00	.00	.00	0	.00
37.86	.00921					.00789	.30			1.07			.00		
224.25	976.75	1.13	977.88	25.0	7.52	.88	978.76	.00	1.38		5.00	.00	.00	0	.00
18.14	.00921					.00690	.13			1.07			.00		
242.39	976.92	1.17	978.09	25.0	7.17	.80	978.89	.00	1.38		5.00	.00	.00	0	.00
10.27	.00921					.00603	.06			1.07			.00		
252.66	977.02	1.21	978.22	25.0	6.84	.73	978.95	.00	1.38		5.00	.00	.00	0	.0
6.11	.00921					.00528	.03			1.07			.00		
258.77	977.07	1.25	978.32	25.0	6.52	.66	978.98	.00	1.38		5.00	.00	.00	0	.0
3.71	.00921					.00462	.02			1.07			.00		
262.48	977.11	1.29	978.40	25.0	6.22	.60	979.00	.00	1.38		5.00	.00	.00	0	.00
2.04	.00921					.00404	.01			1.07			.00		
264.52	977.13	1.34	978.46	25.0	5.93	.55	979.01	.00	1.38		5.00	.00	.00	0	.00
.48	.00921					.00353	.00			1.07			.00		
265.00	977.13	1.38	978.51	25.0	5.64	.50	979.01	.00	1.38		5.00	.00	.00	0	.00
WALL ENTRANCE													.00		

WATER SURFACE PROFILE LISTING

McDowell Road Culvert Hydraulics

FILENAME mcdohdr.dat Note flow in this run should be doubled

Gerard Dalziel

STATION	INVERT ELEV	DEPTH OF FLOW	W.S. ELEV	Q	VEL	VEL HEAD	ENERGY GRD.EL.	SUPER ELEV	CRITICAL DEPTH	HGT/ DIA	BASE/ ID NO.	ZL	NO PIER	AVBPR
L/ELEM	SO					SF AVE	HF		NORM DEPTH			ZR		
265.00	977.13	2.10	979.23	25.0	.12	.00	979.23	.00	.13	5.00	100.00	.00	0	.00

STORM DRAIN ANALYSIS PLUS

Q= 50 x 2 = 100

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Version 1.20
Serial Number 07010156

Nov 7, 1996 18:41:18

Input file : C:\HYDR\SP\MCDHDR.DAT
Output file: C:\HYDR\SP\MC25.OUT

INPUT FILE LISTING

```
T1  McDowell Road Culvert Hydraulics
T2  FILENAME  mcdohdr.dat  Note flow in this run should be doubled
T3  Gerard Dalziel
SO    100.00 975.61  1      .013
WX    100.00 975.61 60      .013
R     265.00 977.13 60      .013
WE    265.00 977.13  2      .013
SH                   2      .013
```

CARD CODE	SECT NO	CHN TYPE	NO OF PIERS	AVE PIER WIDTH	HEIGHT 1 DIAMETER	BASE WIDTH	ZL	ZR	INV DROP	Y(1)	Y(2)	Y(3)	Y(4)	Y(5)	Y(6)	Y(7)	Y(8)	Y(9)	Y(10)
CD	1	1	0	.00	6.00	15.00	2.00	2.00	.00										
CD	60	4			5.00														
CD	2	2	0	.00	5.00	100.00			.00										

WATER SURFACE PROFILE - TITLE CARD LISTING

HEADING LINE NO 1 IS -

McDowell Road Culvert Hydraulics

HEADING LINE NO 2 IS -

FILENAME mcdohdr.dat Note flow in this run should be doubled

HEADING LINE NO 3 IS -

Gerard Dalziel

WATER SURFACE PROFILE - ELEMENT CARD LISTING

```
ELEMENT NO   1 IS A SYSTEM OUTLET      *         *     *
                U/S DATA   STATION    INVERT  SECT                                W S ELEV
                             100.00  975.61    1                                     .00

ELEMENT NO   2 IS A  WALL  EXIT                      *
                U/S DATA   STATION    INVERT  SECT
                             100.00  975.61   60

ELEMENT NO   3 IS A REACH              *         *     *
                U/S DATA   STATION    INVERT  SECT            N                                RADIUS  ANGLE  ANG PT  MAN H
                             265.00  977.13   60            .013                                  .00    .00     .00     0

ELEMENT NO   4 IS A  WALL  ENTRANCE                  *
                U/S DATA   STATION    INVERT  SECT           FP
                             265.00  977.13    2            .013

ELEMENT NO   5 IS A SYSTEM HEADWORKS                 *                    *
                U/S DATA   STATION    INVERT  SECT                                W S ELEV
                             265.00  977.13    2                                     .00
NO EDIT ERRORS ENCOUNTERED-COMPUTATION IS NOW BEGINNING

** WARNING NO. 2 ** - WATER SURFACE ELEVATION GIVEN IS LESS THAN OR EQUALS INVERT ELEVATION IN HDWKDS, W.S.ELEV = INV + DC
```

WATER SURFACE PROFILE LISTING

McDowell Road Culvert Hydraulics

FILENAME mcdohdr.dat Note flow in this run should be doubled

Gerard Dalziel

STATION	INVERT ELEV	DEPTH OF FLOW	W.S. ELEV	Q	VEL	VEL HEAD	ENERGY GRD.EL.	SUPER ELEV	CRITICAL DEPTH		HGT/ DIA	BASE/ ID NO.	ZL	NO PIER	AVBPR
L/ELEM	SO					SF AVE	HF			NORM DEPTH			ZR		
100.00	975.61	.28	975.89	50.0	11.66	2.11	978.00	.00	.68		6.00	15.00	2.00	0	.00
WALL EXIT													2.00		
100.00	975.61	1.53	977.14	50.0	9.78	1.49	978.63	.00	1.98		5.00	.00	.00	0	.00
WALL EXIT													.00		
100.00	975.61	1.53	977.14	50.0	9.78	1.49	978.63	.00	1.98		5.00	.00	.00	0	.00
41.46	.00921					.00863	.36			1.52			.00		
141.46	975.99	1.55	977.54	50.0	9.65	1.45	978.99	.00	1.98		5.00	.00	.00	0	.00
60.20	.00921					.00794	.48			1.52			.00		
201.67	976.55	1.60	978.15	50.0	9.20	1.31	979.47	.00	1.98		5.00	.00	.00	0	.00
28.15	.00921					.00696	.20			1.52			.00		
229.82	976.81	1.66	978.47	50.0	8.77	1.19	979.66	.00	1.98		5.00	.00	.00	0	.00
15.92	.00921					.00609	.10			1.52			.00		
245.74	976.95	1.72	978.67	50.0	8.36	1.09	979.76	.00	1.98		5.00	.00	.00	0	.00
9.75	.00921					.00534	.05			1.52			.00		
255.49	977.04	1.78	978.82	50.0	7.97	.99	979.81	.00	1.98		5.00	.00	.00	0	.00
5.69	.00921					.00468	.03			1.52			.00		
261.18	977.09	1.84	978.94	50.0	7.60	.90	979.84	.00	1.98		5.00	.00	.00	0	.00
3.06	.00921					.00411	.01			1.52			.00		
264.23	977.12	1.91	979.03	50.0	7.25	.82	979.85	.00	1.98		5.00	.00	.00	0	.00
.77	.00921					.00360	.00			1.52			.00		
265.00	977.13	1.98	979.11	50.0	6.90	.74	979.85	.00	1.98		5.00	.00	.00	0	.00
WALL ENTRANCE													.00		

WATER SURFACE PROFILE LISTING

McDowell Road Culvert Hydraulics

FILENAME mcdohdr.dat Note flow in this run should be doubled

Gerard Dalziel

STATION	INVERT ELEV	DEPTH OF FLOW	W.S. ELEV	Q	VEL	VEL HEAD	ENERGY GRD.EL.	SUPER ELEV	CRITICAL DEPTH	HGT/ DIA	BASE/ ID NO.	ZL	NO PIER	AVBPR
L/ELEM	SO					SF AVE	HF		NORM DEPTH			ZR		
265.00	977.13	3.06	980.19	50.0	.16	.00	980.19	.00	.20	5.00	100.00	.00	0	.00

STORM DRAIN ANALYSIS PLUS

Q= 75x2=150

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Version 1.20
Serial Number 07010156

Nov 7, 1996 18:53:30

Input file : C:\HYDR\SP\MCDHDR.DAT
Output file: C:\HYDR\SP\MC75.OUT

INPUT FILE LISTING

```
T1  McDowell Road Culvert Hydraulics
T2  FILENAME  mcdohdr.dat  Note flow in this run should be doubled
T3  Gerard Dalziel
SO    100.00 975.61  1      .013
WX    100.00 975.61 60      .013
R     265.00 977.13 60      .013
WE    265.00 977.13  2      .013
SH                   2      .013
```

WATER SURFACE PROFILE - CHANNEL DEFINITION LISTING

CARD CODE	SECT NO	CHN TYPE	NO OF PIERS	AVE PIER WIDTH	HEIGHT 1 DIAMETER	BASE WIDTH	ZL	ZR	INV DROP	Y(1)	Y(2)	Y(3)	Y(4)	Y(5)	Y(6)	Y(7)	Y(8)	Y(9)	Y(10)
CD	1	1	0	.00	6.00	15.00	2.00	2.00	.00										
CD	60	4			5.00														
CD	2	2	0	.00	5.00	100.00			.00										

WATER SURFACE PROFILE - TITLE CARD LISTING

HEADING LINE NO 1 IS -

McDowell Road Culvert Hydraulics

HEADING LINE NO 2 IS -

FILENAME mcdohdr.dat Note flow in this run should be doubled

HEADING LINE NO 3 IS -

Gerard Dalziel

WATER SURFACE PROFILE - ELEMENT CARD LISTING

```
ELEMENT NO   1 IS A SYSTEM OUTLET      *        *     *
                U/S DATA   STATION    INVERT  SECT                                W S ELEV
                             100.00  975.61    1                                     .00

ELEMENT NO   2 IS A  WALL  EXIT                    *
                U/S DATA   STATION    INVERT  SECT
                             100.00  975.61   60

ELEMENT NO   3 IS A REACH              *        *     *
                U/S DATA   STATION    INVERT  SECT            N                          RADIUS  ANGLE  ANG PT  MAN H
                             265.00  977.13   60            .013                           .00    .00     .00     0

ELEMENT NO   4 IS A  WALL  ENTRANCE                *
                U/S DATA   STATION    INVERT  SECT           FP
                             265.00  977.13    2            .013

ELEMENT NO   5 IS A SYSTEM HEADWORKS               *                    *
                U/S DATA   STATION    INVERT  SECT                                W S ELEV
                             265.00  977.13    2                                     .00
NO EDIT ERRORS ENCOUNTERED-COMPUTATION IS NOW BEGINNING

** WARNING NO. 2 ** - WATER SURFACE ELEVATION GIVEN IS LESS THAN OR EQUALS INVERT ELEVATION IN HDWKDS, W.S.ELEV = INV + DC
```

WATER SURFACE PROFILE LISTING

McDowell Road Culvert Hydraulics

FILENAME mcdohdr.dat Note flow in this run should be doubled

Gerard Dalziel

STATION	INVERT ELEV	DEPTH OF FLOW	W.S. ELEV	Q	VEL	VEL HEAD	ENERGY GRD.EL.	SUPER ELEV	CRITICAL DEPTH		HGT/ DIA	BASE/ ID NO.	ZL	NO PIER	AVBPR
L/ELEM	SO					SF AVE	HF			NORM DEPTH			ZR		
100.00	975.61	.37	975.98	75.0	12.92	2.59	978.57	.00	.88		6.00	15.00	2.00	0	.00
WALL EXIT													2.00		
100.00	975.61	1.91	977.52	75.0	10.84	1.83	979.35	.00	2.45		5.00	.00	.00	0	.00
72.52	.00921					.00815	.59			1.88			.00		
172.52	976.28	1.97	978.25	75.0	10.44	1.70	979.94	.00	2.45		5.00	.00	.00	0	.00
42.16	.00921					.00726	.31			1.88			.00		
214.68	976.67	2.04	978.71	75.0	9.96	1.54	980.25	.00	2.45		5.00	.00	.00	0	.00
23.32	.00921					.00638	.15			1.88			.00		
238.00	976.88	2.11	979.00	75.0	9.50	1.40	980.40	.00	2.45		5.00	.00	.00	0	.00
13.67	.00921					.00560	.08			1.88			.00		
251.67	977.01	2.19	979.20	75.0	9.05	1.27	980.47	.00	2.45		5.00	.00	.00	0	.00
8.11	.00921					.00492	.04			1.88			.00		
259.78	977.08	2.27	979.35	75.0	8.63	1.16	980.51	.00	2.45		5.00	.00	.00	0	.00
4.15	.00921					.00433	.02			1.88			.00		
263.93	977.12	2.36	979.48	75.0	8.23	1.05	980.53	.00	2.45		5.00	.00	.00	0	.00
1.07	.00921					.00380	.00			1.88			.00		
265.00	977.13	2.45	979.58	75.0	7.84	.96	980.53	.00	2.45		5.00	.00	.00	0	.00
WALL ENTRANCE													.00		
265.00	977.13	3.85	980.98	75.0	.19	.00	980.99	.00	.26		5.00	100.00	.00	0	.00

STORM DRAIN ANALYSIS PLUS

Q = 100x2 = 200

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Version 1.20

Serial Number 07010156

Nov 7, 1996 18:43:48

Input file : C:\HYDR\SP\MCDHDR.DAT

Output file: C:\HYDR\SP\MC100.OUT

INPUT FILE LISTING

```
T1  McDowell Road Culvert Hydraulics
T2  FILENAME  mcdohdr.dat  Note flow in this run should be doubled
T3  Gerard Dalziel
SO    100.00 975.61  1      .013
WX    100.00 975.61 60      .013
R     265.00 977.13 60      .013
WE    265.00 977.13  2      .013
SH                   2      .013
```

CARD CODE	SECT NO	CHN TYPE	NO OF PIERS	AVE PIER WIDTH	HEIGHT 1 DIAMETER	BASE WIDTH	ZL	ZR	INV DROP	Y(1)	Y(2)	Y(3)	Y(4)	Y(5)	Y(6)	Y(7)	Y(8)	Y(9)	Y(10)
CD	1	1	0	.00	6.00	15.00	2.00	2.00	.00										
CD	60	4			5.00														
CD	2	2	0	.00	5.00	100.00			.00										

WATER SURFACE PROFILE - TITLE CARD LISTING

HEADING LINE NO 1 IS -

McDowell Road Culvert Hydraulics

HEADING LINE NO 2 IS -

FILENAME mcdohdr.dat Note flow in this run should be doubled

HEADING LINE NO 3 IS -

Gerard Dalziel

WATER SURFACE PROFILE - ELEMENT CARD LISTING

```
ELEMENT NO   1 IS A SYSTEM OUTLET      *        *     *
                U/S DATA   STATION    INVERT  SECT                                W S ELEV
                             100.00  975.61    1                                     .00

ELEMENT NO   2 IS A  WALL  EXIT                      *
                U/S DATA   STATION    INVERT  SECT
                             100.00  975.61   60

ELEMENT NO   3 IS A REACH              *        *     *
                U/S DATA   STATION    INVERT  SECT            N                   RADIUS  ANGLE  ANG PT  MAN H
                             265.00  977.13   60            .013                     .00    .00     .00      0

ELEMENT NO   4 IS A  WALL  ENTRANCE                  *
                U/S DATA   STATION    INVERT  SECT           FP
                             265.00  977.13    2            .013

ELEMENT NO   5 IS A SYSTEM HEADWORKS                 *                     *
                U/S DATA   STATION    INVERT  SECT                                W S ELEV
                             265.00  977.13    2                                     .00
NO EDIT ERRORS ENCOUNTERED-COMPUTATION IS NOW BEGINNING

** WARNING NO. 2 ** - WATER SURFACE ELEVATION GIVEN IS LESS THAN OR EQUALS INVERT ELEVATION IN HDWKDS, W.S.ELEV = INV + DC
```

WATER SURFACE PROFILE LISTING

McDowell Road Culvert Hydraulics

FILENAME mcdohdr.dat Note flow in this run should be doubled

Gerard Dalziel

STATION	INVERT ELEV	DEPTH OF FLOW	W.S. ELEV	Q	VEL	VEL HEAD	ENERGY GRD.EL.	SUPER ELEV	CRITICAL DEPTH		HGT/ DIA	BASE/ ID NO.	ZL	NO PIER	AVBPR
L/ELEM	SO					SF AVE	HF			NORM DEPTH			ZR		
100.00	975.61	.45	976.06	100.0	13.87	2.99	979.05	.00	1.06		6.00	15.00	2.00	0	.00
WALL EXIT													2.00		
100.00	975.61	2.26	977.87	100.0	11.63	2.10	979.97	.00	2.85		5.00	.00	.00	0	.00
WALL EXIT													.00		
100.00	975.61	2.26	977.87	100.0	11.63	2.10	979.97	.00	2.85		5.00	.00	.00	0	.00
23.96	.00921					.00833	.20			2.20			.00		
123.96	975.83	2.27	978.10	100.0	11.53	2.07	980.17	.00	2.85		5.00	.00	.00	0	.00
69.53	.00921					.00773	.54			2.20			.00		
193.49	976.47	2.36	978.83	100.0	11.00	1.88	980.71	.00	2.85		5.00	.00	.00	0	.00
33.95	.00921					.00680	.23			2.20			.00		
227.44	976.78	2.44	979.23	100.0	10.48	1.71	980.94	.00	2.85		5.00	.00	.00	0	.00
19.31	.00921					.00599	.12			2.20			.00		
246.75	976.96	2.54	979.50	100.0	10.00	1.55	981.05	.00	2.85		5.00	.00	.00	0	.0
10.96	.00921					.00528	.06			2.20			.00		
257.71	977.06	2.64	979.70	100.0	9.53	1.41	981.11	.00	2.85		5.00	.00	.00	0	.0
5.77	.00921					.00465	.03			2.20			.00		
263.48	977.12	2.74	979.85	100.0	9.09	1.28	981.14	.00	2.85		5.00	.00	.00	0	.00
1.52	.00921					.00410	.01			2.20			.00		
265.00	977.13	2.85	979.98	100.0	8.66	1.17	981.14	.00	2.85		5.00	.00	.00	0	.00
WALL ENTRANCE													.00		
265.00	977.13	4.58	981.71	100.0	.22	.00	981.71	.00	.31		5.00	100.00	.00	0	.00

STORM DRAIN ANALYSIS PLUS

Q = 125 x 2 = 250

Original version by Los Angeles County Public Works
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Version 1.20
Serial Number 07010156

Nov 7, 1996 18:55:44

Input file : C:\HYDR\SP\MCDHDR.DAT
Output file: C:\HYDR\SP\MC125.OUT

INPUT FILE LISTING

```
T1  McDowell Road Culvert Hydraulics
T2  FILENAME  mcdohdr.dat  Note flow in this run should be doubled
T3  Gerard Dalziel
SO    100.00 975.61  1      .013
WX    100.00 975.61 60      .013
R     265.00 977.13 60      .013
WE    265.00 977.13  2      .013
SH                   2      .013
```

CARD CODE	SECT NO	CHN TYPE	NO OF PIERS	AVE PIER WIDTH	HEIGHT 1 DIAMETER	BASE WIDTH	ZL	ZR	INV DROP	Y(1)	Y(2)	Y(3)	Y(4)	Y(5)	Y(6)	Y(7)	Y(8)	Y(9)	Y(10)
CD	1	1	0	.00	6.00	15.00	2.00	2.00	.00										
CD	60	4			5.00														
CD	2	2	0	.00	5.00	100.00			.00										

WATER SURFACE PROFILE - TITLE CARD LISTING

HEADING LINE NO 1 IS -

McDowell Road Culvert Hydraulics

HEADING LINE NO 2 IS -

FILENAME mcdohdr.dat Note flow in this run should be doubled

HEADING LINE NO 3 IS -

Gerard Dalziel

WATER SURFACE PROFILE - ELEMENT CARD LISTING

```
ELEMENT NO   1 IS A SYSTEM OUTLET      *        *     *
                    U/S DATA   STATION    INVERT  SECT                                W S ELEV
                                 100.00  975.61    1                                     .00

ELEMENT NO   2 IS A  WALL  EXIT                      *
                    U/S DATA   STATION    INVERT  SECT
                                 100.00  975.61   60

ELEMENT NO   3 IS A REACH            *        *     *
                    U/S DATA   STATION    INVERT  SECT              N                          RADIUS  ANGLE  ANG PT  MAN H
                                 265.00  977.13   60             .013                            .00    .00     .00     0

ELEMENT NO   4 IS A  WALL  ENTRANCE                  *
                    U/S DATA   STATION    INVERT  SECT             FP
                                 265.00  977.13    2             .013

ELEMENT NO   5 IS A SYSTEM HEADWORKS                 *                     *
                    U/S DATA   STATION    INVERT  SECT                                W S ELEV
                                 265.00  977.13    2                                     .00
NO EDIT ERRORS ENCOUNTERED-COMPUTATION IS NOW BEGINNING

** WARNING NO. 2 ** - WATER SURFACE ELEVATION GIVEN IS LESS THAN OR EQUALS INVERT ELEVATION IN HDWKDS, W.S.ELEV = INV + DC
```

WATER SURFACE PROFILE LISTING

McDowell Road Culvert Hydraulics

FILENAME mcdohdr.dat Note flow in this run should be doubled

Gerard Dalziel

STATION	INVERT ELEV	DEPTH OF FLOW	W.S. ELEV	Q	VEL	VEL HEAD	ENERGY GRD.EL.	SUPER ELEV	CRITICAL DEPTH		HGT/ DIA	BASE/ ID NO.	ZL	NO PIER	AVBPR
L/ELEM	SO					SF AVE	HF			NORM DEPTH			ZR		
100.00	975.61	.53	976.14	125.0	14.70	3.36	979.50	.00	1.22		6.00	15.00	2.00	0	.00
WALL EXIT													2.00		
100.00	975.61	2.57	978.18	125.0	12.28	2.34	980.53	.00	3.20		5.00	.00	.00	0	.00
58.21	.00921					.00809	.47			2.50			.00		
158.21	976.15	2.63	978.77	125.0	11.97	2.23	981.00	.00	3.20		5.00	.00	.00	0	.00
53.39	.00921					.00735	.39			2.50			.00		
211.59	976.64	2.73	979.37	125.0	11.41	2.02	981.39	.00	3.20		5.00	.00	.00	0	.00
28.23	.00921					.00649	.18			2.50			.00		
239.82	976.90	2.84	979.73	125.0	10.88	1.84	981.57	.00	3.20		5.00	.00	.00	0	.00
15.28	.00921					.00573	.09			2.50			.00		
255.10	977.04	2.95	979.99	125.0	10.37	1.67	981.66	.00	3.20		5.00	.00	.00	0	.00
7.72	.00921					.00507	.04			2.50			.00		
262.83	977.11	3.07	980.18	125.0	9.89	1.52	981.70	.00	3.20		5.00	.00	.00	0	.0
2.17	.00921					.00449	.01			2.50			.00		
265.00	977.13	3.20	980.33	125.0	9.43	1.38	981.71	.00	3.20		5.00	.00	.00	0	.0
WALL ENTRANCE													.00		
265.00	977.13	5.30	982.43	125.0	.24	.00	982.44	.00	.37		5.00	100.00	.00	0	.00

STORM DRAIN ANALYSIS PLUS

Q= 150 x 2 = 300

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Version 1.20

Serial Number 07010156

Nov 7, 1996 18:47:13

Input file : C:\HYDR\SP\MCDHDR.DAT

Output file: C:\HYDR\SP\MC150.OUT

INPUT FILE LISTING

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T1  McDowell Road Culvert Hydraulics
T2  FILENAME  mcdohdr.dat  Note flow in this run should be doubled
T3  Gerard Dalziel
SO    100.00 975.61  1      .013
WX    100.00 975.61 60      .013
R     265.00 977.13 60      .013
WE    265.00 977.13  2      .013
SH                   2      .013
```

WATER SURFACE PROFILE - CHANNEL DEFINITION LISTING

CARD CODE	SECT NO	CHN TYPE	NO OF PIERS	AVE PIER WIDTH	HEIGHT 1 DIAMETER	BASE WIDTH	ZL	ZR	INV DROP	Y(1)	Y(2)	Y(3)	Y(4)	Y(5)	Y(6)	Y(7)	Y(8)	Y(9)	Y(10)
CD	1	1	0	.00	6.00	15.00	2.00	2.00	.00										
CD	60	4			5.00														
CD	2	2	0	.00	5.00	100.00			.00										

WATER SURFACE PROFILE - TITLE CARD LISTING

HEADING LINE NO 1 IS -

McDowell Road Culvert Hydraulics

HEADING LINE NO 2 IS -

FILENAME mcdohdr.dat Note flow in this run should be doubled

HEADING LINE NO 3 IS -

Gerard Dalziel

WATER SURFACE PROFILE - ELEMENT CARD LISTING

```
ELEMENT NO   1 IS A SYSTEM OUTLET      *        *     *
                U/S DATA   STATION    INVERT  SECT                                W S ELEV
                             100.00  975.61    1                                     .00

ELEMENT NO   2 IS A  WALL  EXIT                    *
                U/S DATA   STATION    INVERT  SECT
                             100.00  975.61   60

ELEMENT NO   3 IS A REACH              *        *     *
                U/S DATA   STATION    INVERT  SECT            N                                RADIUS  ANGLE  ANG PT  MAN H
                             265.00  977.13   60            .013                                  .00    .00     .00     0

ELEMENT NO   4 IS A  WALL  ENTRANCE                *
                U/S DATA   STATION    INVERT  SECT           FP
                             265.00  977.13    2            .013

ELEMENT NO   5 IS A SYSTEM HEADWORKS               *                    *
                U/S DATA   STATION    INVERT  SECT                                W S ELEV
                             265.00  977.13    2                                     .00
NO EDIT ERRORS ENCOUNTERED-COMPUTATION IS NOW BEGINNING

** WARNING NO. 2 ** - WATER SURFACE ELEVATION GIVEN IS LESS THAN OR EQUALS INVERT ELEVATION IN HDWKDS, W.S.ELEV = INV + DC
```

WATER SURFACE PROFILE LISTING

McDowell Road Culvert Hydraulics

FILENAME mcdohdr.dat Note flow in this run should be doubled

Gerard Dalziel

STATION	INVERT ELEV	DEPTH OF FLOW	W.S. ELEV	Q	VEL	VEL HEAD	ENERGY GRD.EL.	SUPER ELEV	CRITICAL DEPTH		HGT/ DIA	BASE/ ID NO.	ZL	NO PIER	AVBPR
L/ELEM	SO					SF AVE	HF			NORM DEPTH			ZR		
100.00	975.61	.60	976.21	150.0	15.41	3.69	979.90	.00	1.37		6.00	15.00	2.00	0	.00
WALL EXIT													2.00		
100.00	975.61	2.87	978.48	150.0	12.85	2.56	981.05	.00	3.51		5.00	.00	.00	0	.00
WALL EXIT													.00		
100.00	975.61	2.87	978.48	150.0	12.85	2.56	981.05	.00	3.51		5.00	.00	.00	0	.00
83.94	.00921					.00798	.67			2.79			.00		
183.94	976.38	2.97	979.36	150.0	12.32	2.36	981.72	.00	3.51		5.00	.00	.00	0	.00
44.24	.00921					.00712	.31			2.79			.00		
228.19	976.79	3.10	979.89	150.0	11.75	2.15	982.03	.00	3.51		5.00	.00	.00	0	.00
22.76	.00921					.00631	.14			2.79			.00		
250.95	977.00	3.22	980.22	150.0	11.20	1.95	982.18	.00	3.51		5.00	.00	.00	0	.00
10.90	.00921					.00560	.06			2.79			.00		
261.85	977.10	3.36	980.46	150.0	10.68	1.77	982.24	.00	3.51		5.00	.00	.00	0	.00
3.15	.00921					.00498	.02			2.79			.00		
265.00	977.13	3.51	980.64	150.0	10.18	1.61	982.25	.00	3.51		5.00	.00	.00	0	.00
WALL ENTRANCE													.00		
265.00	977.13	6.08	983.21	150.0	.25	.00	983.21	.00	.41		5.00	100.00	.00	0	.00

STORM DRAIN ANALYSIS PLUS

$Q = 200 \times 2 = 400$

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Version 1.20

Serial Number 07010156

Nov 7, 1996 18:49: 7

Input file : C:\HYDR\SP\MCDHDR.DAT

Output file: C:\HYDR\SP\MC200.OUT

INPUT FILE LISTING

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T1  McDowell Road Culvert Hydraulics
T2  FILENAME  mcdohdr.dat  Note flow in this run should be doubled
T3  Gerard Dalziel
SO    100.00 975.61  1      .013
WX    100.00 975.61 60      .013
R     265.00 977.13 60      .013
WE    265.00 977.13  2      .013
SH                   2      .013
```

CARD CODE	SECT NO	CHN TYPE	NO OF PIERS	AVE PIER WIDTH	HEIGHT 1 DIAMETER	BASE WIDTH	ZL	ZR	INV DROP	Y(1)	Y(2)	Y(3)	Y(4)	Y(5)	Y(6)	Y(7)	Y(8)	Y(9)	Y(10)
CD	1	1	0	.00	6.00	15.00	2.00	2.00	.00										
CD	60	4			5.00														
CD	2	2	0	.00	5.00	100.00			.00										

WATER SURFACE PROFILE - TITLE CARD LISTING

HEADING LINE NO 1 IS -

McDowell Road Culvert Hydraulics

HEADING LINE NO 2 IS -

FILENAME mcdohdr.dat Note flow in this run should be doubled

HEADING LINE NO 3 IS -

Gerard Dalziel

WATER SURFACE PROFILE - ELEMENT CARD LISTING

```
ELEMENT NO   1 IS A SYSTEM OUTLET     *        *     *
                   U/S DATA   STATION    INVERT  SECT                                W S ELEV
                                100.00  975.61    1                                      .00

ELEMENT NO   2 IS A  WALL  EXIT                     *
                   U/S DATA   STATION    INVERT  SECT
                                100.00  975.61   60

ELEMENT NO   3 IS A REACH             *        *     *
                   U/S DATA   STATION    INVERT  SECT              N                RADIUS  ANGLE  ANG PT  MAN H
                                265.00  977.13   60             .013                   .00    .00     .00      0

ELEMENT NO   4 IS A  WALL  ENTRANCE                 *
                   U/S DATA   STATION    INVERT  SECT             FP
                                265.00  977.13    2             .013

ELEMENT NO   5 IS A SYSTEM HEADWORKS                *                    *
                   U/S DATA   STATION    INVERT  SECT                                W S ELEV
                                265.00  977.13    2                                      .00
NO EDIT ERRORS ENCOUNTERED-COMPUTATION IS NOW BEGINNING

ERROR MESSAGE NO. 32 - CRITICAL DEPTH MAY BE INACCURATE IN ELEMENT   2   INCREMENT =    .000010
ERROR MESSAGE NO. 32 - CRITICAL DEPTH MAY BE INACCURATE IN ELEMENT   1   INCREMENT =    .000010
** WARNING NO. 2 ** - WATER SURFACE ELEVATION GIVEN IS LESS THAN OR EQUALS INVERT ELEVATION IN HDWKDS, W.S.ELEV = INV + DC
```

WATER SURFACE PROFILE LISTING

McDowell Road Culvert Hydraulics
FILENAME mcdohdr.dat Note flow in this run should be doubled
Gerard Dalziel

STATION	INVERT ELEV	DEPTH OF FLOW	W.S. ELEV	Q	VEL	VEL HEAD	ENERGY GRD.EL.	SUPER ELEV	CRITICAL DEPTH		HGT/ DIA	BASE/ ID NO.	ZL	NO PIER	AVBPR
L/ELEM	SO					SF AVE	HF			NORM DEPTH			ZR		
100.00	975.61	.73	976.34	200.0	16.64	4.30	980.64	.00	1.64		6.00	15.00	2.00	0	.00
WALL EXIT													2.00		
100.00	975.61	3.47	979.08	200.0	13.77	2.95	982.02	.00	4.04		5.00	.00	.00	0	.00
WALL EXIT													.00		
100.00	975.61	3.47	979.08	200.0	13.77	2.95	982.02	.00	4.04		5.00	.00	.00	0	.00
49.84	.00921					.00850	.42			3.38			.00		
149.84	976.07	3.51	979.58	200.0	13.59	2.87	982.45	.00	4.04		5.00	.00	.00	0	.00
77.75	.00921					.00792	.62			3.38			.00		
227.58	976.79	3.67	980.45	200.0	12.95	2.61	983.06	.00	4.04		5.00	.00	.00	0	.00
29.75	.00921					.00709	.21			3.38			.00		
257.34	977.06	3.84	980.90	200.0	12.35	2.37	983.27	.00	4.04		5.00	.00	.00	0	.00
7.66	.00921					.00639	.05			3.38			.00		
265.00	977.13	4.04	981.17	200.0	11.77	2.15	983.32	.00	4.04		5.00	.00	.00	0	.0
WALL ENTRANCE													.00		
265.00	977.13	7.82	984.95	200.0	.26	.00	984.95	.00	.50		5.00	100.00	.00	0	.0

DEPTH VS. STORAGE VS. ELEVATION CURVES FOR INNUNDATION AREA FOR PHASE 1

FROM HYDRAULIC CALCULATIONS		INTERPOLATED HYDRAULICS		STORAGE VOLUME CALCULATIONS		
ELEV	FLOW RATE	ELEV	FLOW RATE cfs	AREA ac.	VOLUME acft.	TOTAL STORAGE
		974.00	0.00	0.11	0.00	0.00
977.13	0.00	976.00	0.00	2.39	2.50	2.50
978.59	25.00	977.00	0.00	4.86	3.62	6.12
979.23	50.00	978.00	14.90	7.32	6.09	12.21
980.19	100.00	979.00	41.02	10.02	8.67	20.88
980.98	150.00	980.00	90.10	12.72	11.37	32.25
981.71	200.00	981.00	151.37	16.46	14.59	46.84
982.43	250.00	982.00	220.14	20.20	18.33	65.17
983.21	300.00	983.00	286.54	23.30	21.75	86.93
984.95	400.00	984.00	345.40	26.40	24.85	111.78

NOTE: EVEN ELEVATION VOLUMES ARE INTERPOLATED

E:\RPT7\AVONDALE.WK4

PHASE 2 CHANNEL STORAGE CALCULATIONS
FOR AGUA FRIA AT ELVATATION 983.99 - FLAP GATES CLOSED

CHANNEL DIMENSIONS 20 FT BOTTOM 3:1 SIDE SLOPES - L = 2300 S = .001

Elevation (ft)	D/S Area (sqft)	U/S Area (sqft)	Average Area (sqft)	Volume (acre-ft)	Total Volume (acre-ft)
974	0	0	0	0	0
976	46	0	23	1.2144	1.2144
977	69	23	46	~~2.4288~~ 1.8216	~~3.6432~~ 3.036
978	92	46	69	~~3.6433~~ 3.0360	~~7.2865~~ 6.072
979	115	69	92	~~4.8577~~ 4.250	~~12.1442~~ 10.322
980	138	92	115	~~6.0721~~ 5.4648	~~18.2163~~ 15.7868
981	161	115	138	~~7.2865~~ 6.6792	~~25.5028~~ 22.466
982	184	138	161	~~8.5009~~ 7.8937	~~34.0037~~ 30.3597
983	207	161	184	~~9.7153~~ 9.1081	~~43.7190~~ 39.4678
984	230	184	207	~~10.9298~~ 10.3225	~~54.6488~~ 49.7903

TABLE 1. SUMMARY OF DISCHARGES ON THE AGUA FRIA RIVER[1] - PRESENT CONDITIONS
With New Waddell Dam versus (Without New Waddell Dam)

		DISCHARGE IN FT^3/S WITH (WITHOUT) NEW WADDELL DAM								
LOCATION	DRAINAGE AREA[5], sq.mi.	SPF[2,3]	500-YR	200-YR	100-YR	50-YR	25-YR	10-YR	5-YR	2-YR
U/S of New Waddell Dam	1459	158,000 (158,000)	182,000 (182,000)	155,000 (155,000)	135,000 (135,000)	110,000 (110,000)	90,000 (90,000)	48,000 (48,000)	16,000 (16,000)	0 (N/A)
D/S of New Waddell Dam	0	22,000 (158,000)	46,500 (182,000)	17,000 (155,000)	9000 (135,000)	9000 (110,000)	9000 (90,000)	0 (48,000)	0 (16,000)	0 (N/A)
@ Bell Rd. CP 1037	171	(N/A)	59,000 (182,000)	46,500 (152,000)	37,500 (115,000)	29,000 (87,000)	20,500 (64,000)	11,000 (23,000)	5200 (5200)	1200 (N/A)
@ Grand Ave CP 1038	183	(N/A)	53,000 (181,000)	43,000 (144,000)	34,500 (109,000)	26,500 (82,000)	19,000 (59,000)	10,000 (22,000)	4800 (4800)	780 (N/A)
U/S New R. CP 1039U	231	(N/A)	48,000 (177,000)	38,000 (120,000)	30,000 (90,000)	23,000 (66,000)	16,000 (45,000)	8700 (18,000)	4600 (4600)	820 (N/A)
DOWNSTREAM OF CONFLUENCE WITH NEW RIVER										
D/S New R. CP 1039D	392	94,000 102,000[4]	130,000 (N/A)	80,000 (N/A)	54,400 (95,000)	39,000 (N/A)	26,000 (N/A)	16,100 (N/A)	10,000 (N/A)	5500 (N/A)
@ I-10 Fwy CP 1040	474	90,000 99,000[4]	125,000 (N/A)	75,000 (N/A)	52,000 (91,000)	38,000 (N/A)	25,000 (N/A)	15,300 (N/A)	10,000 (N/A)	5400 (N/A)
@ Avondale CP 1042	485	88,000 97,000[4]	115,000 (N/A)	74,000 (N/A)	50,900 (90,000)	37,000 (N/A)	25,000 (N/A)	15,000 (N/A)	10,000 (N/A)	5300 (N/A)
Above Gila R. CP 1043	485	83,000 92,000[4]	110,000 (N/A)	70,000 (N/A)	48,200 (89,000)	35,000 (N/A)	23,000 (N/A)	14,200 (N/A)	9000 (N/A)	5000 (N/A)

Notes: (1) Starting Elevation for all flood routings is 1694 based upon USBR Standing Operating Procedures, Appendix C.
(2) SPF discharges D/S of New Waddell Dam based upon routing of flood produced by centering the August 1951 storm over the U/S drainage area. See reference 3.
(3) SPF discharges U/S of New Waddell Dam based upon centering of local storm (Queen Creek, Aug 19, 1954) over the area D/S of New Waddell Dam. See Appendix A.
(4) Future conditions SPF discharges from Appendix A.
(5) Effective drainage area. For locations D/S of New Waddell Dam the effective drainage area does not include the drainage areas controlled by the dams.
N/A Discharge not available.

Jerry Jones HEC-2
For Mc Dowell Road

Q 100

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 5.510

3265 DIVIDED FLOW

3280 CROSS SECTION 5.51 EXTENDED 7.56 FEET

3301 HV CHANGED MORE THAN HVINS

5.510	8.25	980.95	.00	.00	983.25	2.30	.38	.22	973.40
95000.0	.0	95000.0	.0	.0	7814.0	.0	11971.5	2438.0	990.10
1.19	.00	12.16	.00	.000	.025	.000	.000	972.70	9325.00
.003462	150.	150.	100.	2	0	0	.00	1190.46	10556.18

*SECNO 5.540
3280 CROSS SECTION 5.54 EXTENDED 9.19 FEET

5.540	9.19	981.79	.00	.00	983.70	1.91	.41	.04	972.60
95000.0	.0	95000.0	.0	.0	8570.6	.0	11997.8	2441.9	988.40
1.20	.00	11.08	.00	.000	.025	.000	.000	972.60	9340.00
.002563	130.	140.	150.	3	0	0	.00	1201.15	10541.15

*SECNO 5.650

5.650	10.52	983.42	.00	.00	984.85	1.43	1.10	.05	987.40
95000.0	.0	95000.0	.0	.0	9898.2	.0	12120.8	2457.4	993.20
1.21	.00	9.60	.00	.000	.025	.000	.000	972.90	9416.06
.001458	580.	580.	580.	2	0	0	.00	1134.74	10550.81

CCHV= .300 CEHV= .500
*SECNO 5.689

3370 NORMAL BRIDGE, NRD= 40 MIN ELTRD= 996.90 MAX ELLC= 996.80

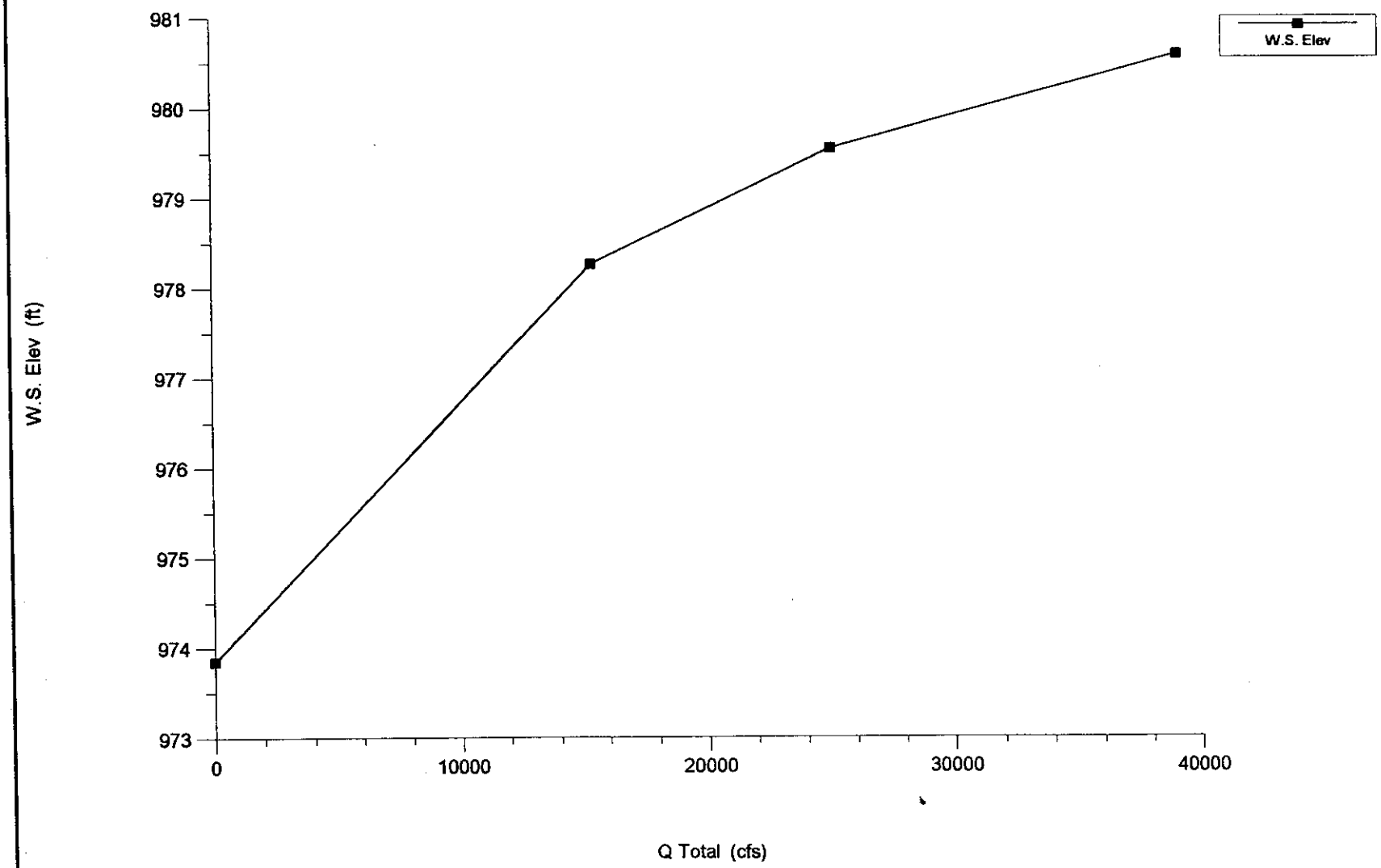
****
***** MCDOWELL ROAD *****
***** LOW CHORD = 990.8 *****
****

Water Surface Elevation at Flap Gates for 100year Storm in Agua Fria

5.689	10.14	983.99	.00	.00	985.17	1.18	.25	.08	990.80
95000.0	.0	95000.0	.0	.0	10899.9	.0	12170.9	2463.0	990.80
1.22	.00	8.72	.00	.000	.022	.000	.000	973.85	9382.63
.000958	210.	210.	210.	2	0	0	-679.69	1158.84	10541.47

Stage-Discharge Curve For McDowell Road

agua fria Plan: Imported Plan 01 11/8/96
5.689 AGUA FRIA AT MCDOWELL



HEC-2 For Agua Fria 50year Discharge

Plan: Imported Pla Reach: 1 Riv Sta: 5.689 Profile: 1 11/8/96 Q50

W.S. Elev (ft)	980.58	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.40	Wt. n-Val.		0.022	
E.G. Elev (ft)	980.98	Reach Len. (ft)	210.00	210.00	210.00
E.G. Slope (ft/ft)	0.000456	Flow Area (sq ft)		7648.79	
Q Total (cfs)	39000.00	Flow (cfs)		39000.00	
Top Width (ft)	1147.50	Top Width (ft)		1147.50	
Vel Total (ft/s)	5.10	Avg. Vel. (ft/s)		5.10	
Max Chl Dpth (ft)	6.73	Hydr. Depth (ft)		6.67	
Crit W.S. (ft)		Wetted Per. (ft)		1151.23	
Conv. Total (cfs)	1825795.0	Conv. (cfs)		1825795.0	

HEC-2 For Agua Fria Q25

Plan: Imported Pla Reach: 1 Riv Sta: 5.689 Profile: 2 11/8/96 Q25

W.S. Elev (ft)	979.55	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.23	Wt. n-Val.		0.022	
E.G. Elev (ft)	979.78	Reach Len. (ft)	210.00	210.00	210.00
E.G. Slope (ft/ft)	0.000327	Flow Area (sq ft)		6461.69	
Q Total (cfs)	25000.00	Flow (cfs)		25000.00	
Top Width (ft)	1144.05	Top Width (ft)		1144.05	
Vel Total (ft/s)	3.87	Avg. Vel. (ft/s)		3.87	
Max Chl Dpth (ft)	5.70	Hydr. Depth (ft)		5.65	
Crit W.S. (ft)		Wetted Per. (ft)		1147.21	
Conv. Total (cfs)	1381616.0	Conv. (cfs)		1381616.0	

HEC-2 For Agua Fria @ McDowell

Plan: Imported Pla Reach: 1 Riv Sta: 5.689 Profile: 3 11/8/96 Q 10

W.S. Elev (ft)	978.27	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.15	Wt. n-Val.		0.022	
E.G. Elev (ft)	978.41	Reach Len. (ft)	210.00	210.00	210.00
E.G. Slope (ft/ft)	0.000286	Flow Area (sq ft)		5001.74	
Q Total (cfs)	15300.00	Flow (cfs)		15300.00	
Top Width (ft)	1139.80	Top Width (ft)		1139.80	
Vel Total (ft/s)	3.06	Avg. Vel. (ft/s)		3.06	
Max Chl Dpth (ft)	4.42	Hydr. Depth (ft)		4.39	
Crit W.S. (ft)		Wetted Per. (ft)		1142.25	
Conv. Total (cfs)	904205.6	Conv. (cfs)		904205.6	

Jerry Jones HEC-2
for Agua Fria @ Thomas Road Culverts

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 6.590

6.590	11.91	993.71	.00	.00	994.75	1.04	.14	.05	998.50
95000.0	.0	95000.0	.0	.0	11609.4	.0	13283.5	2589.5	998.00
1.36	.00	8.18	.00	.000	.025	.000	.000	981.80	9459.61
.000844	165.	150.	155.	2	0	0	.00	1118.60	10578.21

*SECNO 6.610

3265 DIVIDED FLOW

6.610	11.83	993.63	.00	.00	995.05	1.42	.11	.19	998.80
95000.0	.0	95000.0	.0	.0	9946.7	.0	13308.2	2592.0	998.20
1.36	.00	9.55	.00	.000	.025	.000	.000	981.80	9445.51
.001377	115.	100.	85.	2	0	0	.00	1088.54	10565.24

*SECNO 6.640

6.640	11.79	994.19	.00	.00	995.31	1.12	.17	.09	999.30
95000.0	.0	95000.0	.0	.0	11178.1	.0	13344.6	2595.8	998.40
1.37	.00	8.50	.00	.000	.025	.000	.000	982.40	9451.29
.000958	165.	150.	135.	2	0	0	.00	1118.67	10569.96

*SECNO 6.660

6.660	12.04	994.24	.00	.00	995.54	1.30	.15	.09	999.60
95000.0	.0	95000.0	.0	.0	10381.6	.0	13378.0	2599.3	999.00
1.37	.00	9.15	.00	.000	.025	.000	.000	982.20	9472.94
.001228	150.	135.	120.	2	0	0	.00	1119.41	10592.35

*SECNO 6.690 Thomas Road Culvert

6.690	12.47	994.67	.00	.00	995.74	1.07	.13	.07	1000.00
95000.0	.0	95000.0	.0	.0	11442.2	.0	13409.3	2602.5	998.80
1.38	.00	8.30	.00	.000	.025	.000	.000	982.20	9458.66
.000887	145.	125.	100.	2	0	0	.00	1120.36	10579.02

994.67 < 995 No restriction

*SECNO 6.710

3265 DIVIDED FLOW

6.710	13.27	994.77	.00	.00	995.87	1.11	.11	.02	1000.30
95000.0	.0	95000.0	.0	.0	11244.2	.0	13441.8	2605.7	999.10
1.38	.00	8.45	.00	.000	.025	.000	.000	981.50	9459.61
.000933	130.	125.	115.	2	0	0	.00	1106.71	10578.27

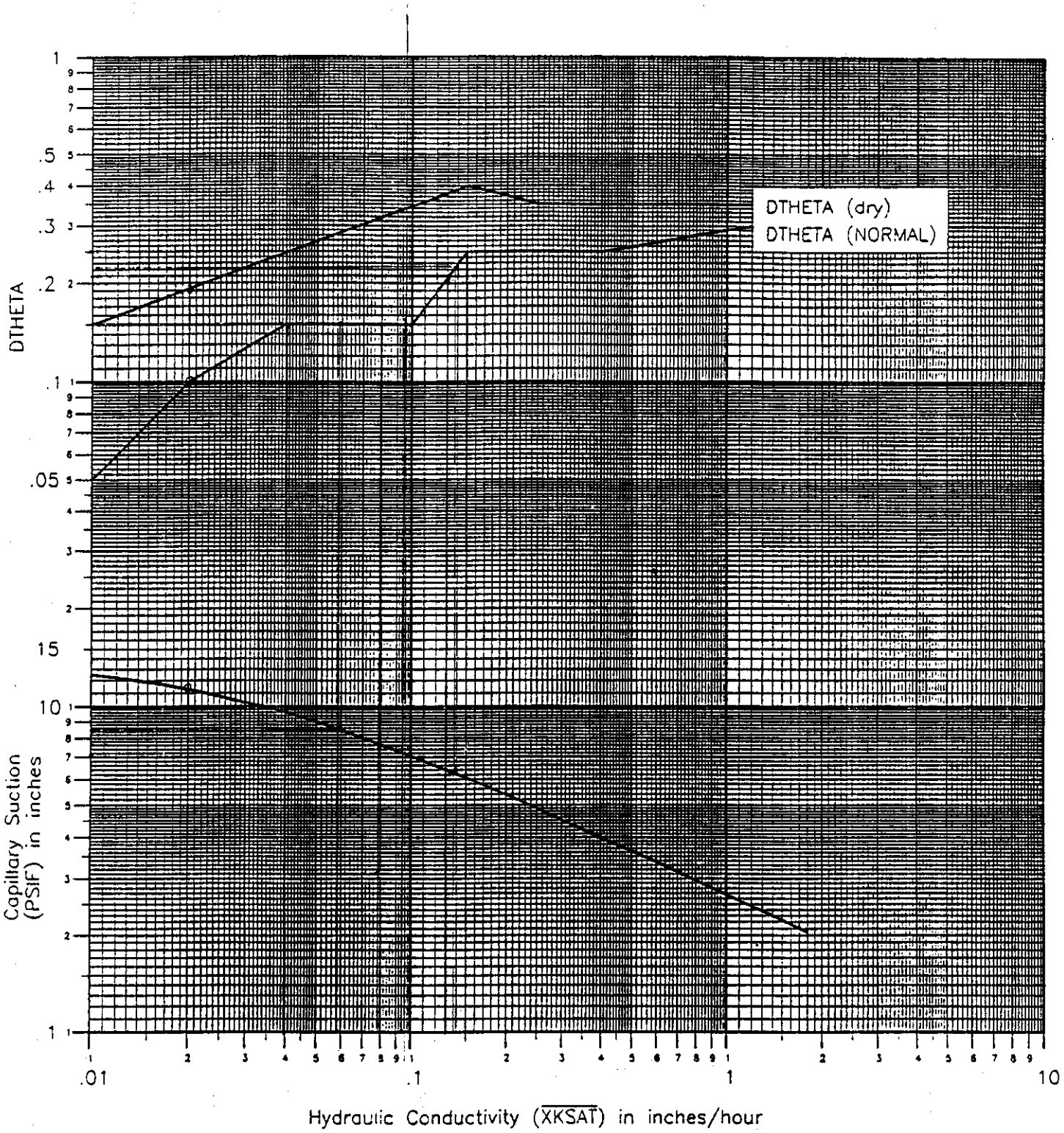


Figure 4.3
Composite Values of PSIF and DTHETA as a function of XKSAT
(To be used for area-weighted averaging of Green and Ampt parameters.)

AVONDALE WETLANDS CONSTRUCTION
OFFSITE HYDROLOGY

05/23/97

EXISTING CONDITION HEC 1 INPUT PARAMETER CALCULATIONS

SUB AREA	SOIL TYPE	RESIDENT AREA (acres)	AGRI. AREA (acres)	% SOIL TYPE	IMPERV AREA (acres)	XKSAT BY SOIL	XKSAT ADJUSTED	RTIMP	IA
A	Le	3.7		0.02	1.11	0.04	0.058		
	Tt	73.5	6.6	0.50	22.05	0.04	0.059		
	Gt	66.7	11.3	0.48	20.01	0.04	0.059		
TOTALS:		143.9	17.9		43.17				
SUB AREA TOTAL:			*161.8*						
CALCULATED:						*0.04*	*0.059*	*0.27*	*0.23*

05/23/97

AVONDALE WETLANDS CONSTRUCTION
OFFSITE HYDROLOGY

EXISTING CONDITION HEC 1 INPUT PARAMETER CALCULATIONS

SUB AREA	*SOIL TYPE*	*RESIDENT AREA (acres)*	*AGRI. AREA (acres)*	*% SOIL TYPE*	*IMPERV AREA (acres)*	*XKSAT BY SOIL*	*XKSAT ADJUSTED*	*RTIMP*	*IA*
B	Le		129.0	0.6320	0.00	0.04	0.070		
	Mr		28.3	0.1387	0.00	0.25	0.438		
	Tu		33.4	0.1636	0.00	0.25	0.438		
	LcA		12.8	0.0627	0.00	0.25	0.438		
	Tw		0.6	0.0029	0.00	0.05	0.088		
TOTALS:		0.0	204.1		0.00				
SUB AREA TOTAL:			*204.1*						
CALCULATED:						*0.07827*	*0.137*	*0.00*	*0.50*

AVONDALE WETLANDS CONSTRUCTION
OFFSITE HYDROLOGY

05/23/97

EXISTING CONDITION HEC 1 INPUT PARAMETER CALCULATIONS

SUB AREA	SOIL TYPE	RESIDENT AREA (acres)	AGRI. AREA (acres)	% SOIL TYPE	IMPERV AREA (acres)	XKSAT BY SOIL	XKSAT ADJUSTED	RTIMP	IA
C	Le		260.3	0.90	0.00	0.04	0.070		
	Mr		14.0	0.05	0.00	0.25	0.438		
	Tu		6.9	0.02	0.00	0.25	0.438		
	Tw		6.9	0.02	0.00	0.05	0.088		
TOTALS:		0.0	288.1		0.00				
SUB AREA TOTAL:			288.1						
CALCULATED:						0.04593	0.080	0.00	0.50

AVONDALE WETLANDS CONSTRUCTION
OFFSITE HYDROLOGY

05/23/97

EXISTING CONDITION HEC 1 INPUT PARAMETER CALCULATIONS

SUB AREA	SOIL TYPE	RESIDENT AREA (acres)	AGRI. AREA (acres)	% SOIL TYPE	IMPERV AREA (acres)	XKSAT BY SOIL	XKSAT ADJUSTED	RTIMP	IA
D	Le	173.0	11.0	0.36	51.90	0.04	0.058		
	LcA	144.9	66.7	0.41	43.47	0.25	0.384		
	Tw	0.0	11.4	0.02	0.00	0.05	0.088		
	Mr	11.8	10.3	0.04	3.54	0.25	0.396		
	Lb	6.6	3.9	0.02	1.98	0.40	0.622		
	Tu	0.0	4.1	0.01	0.00	0.25	0.438		
	Gt	60.0	8.7	0.13	18.00	0.04	0.059		
TOTALS:		396.3	116.1		118.89				
SUB AREA TOTAL:			*512.4*						
CALCULATED:						*0.09864*	*0.149*	*0.23*	*0.27*

AVONDALE WETLANDS CONSTRUCTION
OFFSITE HYDROLOGY

05/23/97

EXISTING CONDITION HEC 1 INPUT PARAMETER CALCULATIONS

SUB AREA	SOIL TYPE	RESIDENT AREA (acres)	AGRI. AREA (acres)	% SOIL TYPE	IMPERV AREA (acres)	XKSAT BY SOIL	XKSAT ADJUSTED	RTIMP	IA
E	Ge	6.0	13.5	0.05	1.79	0.25	0.414		
	Cb	15.8	4.8	0.06	4.74	0.40	0.605		
	Ma	9.4	13.2	0.06	2.82	0.40	0.648		
	GgA	42.6	19.4	0.17	12.78	0.25	0.384		
	Mr	8.8	4.7	0.04	2.65	0.25	0.387		
	Tt	86.9	10.0	0.26	26.07	0.04	0.059		
	Gt	71.5	41.3	0.31	21.45	0.04	0.062		
	Le	2.7	15.8	0.05	0.82	0.04	0.068		
TOTALS:		243.7	122.6		73.11				
SUB AREA TOTAL:			*366.3*						
CALCULATED:						*0.08436*	*0.130*	*0.20*	*0.30*

AVONDALE WETLANDS CONSTRUCTION
OFFSITE HYDROLOGY

05/23/97

EXISTING CONDITION HEC 1 INPUT PARAMETER CALCULATIONS

SUB AREA	*SOIL TYPE*	*RESIDENT AREA (acres)*	*AGRI. AREA (acres)*	*% SOIL TYPE*	*IMPERV AREA (acres)*	*XKSAT BY SOIL*	*XKSAT ADJUSTED*	*RTIMP*	*IA*
F	Le		33.5	0.26	0.00	0.04	0.070		
	Gt		48.9	0.38	0.00	0.04	0.070		
	Tt		24.1	0.19	0.00	0.04	0.070		
	LcA		22.3	0.17	0.00	0.25	0.438		
TOTALS:		0.0	128.8		0.00				
SUB AREA TOTAL:			*128.8*						
CALCULATED:						*0.05496*	*0.096*	*0.00*	*0.50*

AVONDALE WETLANDS CONSTRUCTION
HYDROLOGY

05/23/97

EXISTING CONDITION HEC 1 INPUT PARAMETER CALCULATIONS

SUB AREA	SOIL TYPE	RESIDENT AREA (acres)	AGRI. AREA (acres)	% SOIL TYPE	IMPERV AREA (acres)	XKSAT BY SOIL	XKSAT ADJUSTED	RTIMP	IA
G	Le	0.0	15.2	0.03	0.00	0.04	0.080		
	Lb	9.5	2.2	0.02	2.85	0.40	0.683		
	Gt	0.0	25.9	0.05	0.00	0.04	0.080		
	Gv	0.0	15.9	0.03	0.00	0.01	0.020		
	Tt	41.7	24.4	0.14	12.51	0.04	0.071		
	Mr	9.0	55.8	0.13	2.70	0.25	0.486		
	Ma	35.6	6.8	0.09	10.68	0.40	0.679		
	Br	17.0	22.4	0.08	5.10	1.05	1.935		
	Vh	6.2	0.8	0.01	1.86	0.63	1.060		
	LcA	26.2	17.8	0.09	7.86	0.25	0.446		
	BE	0.0	3.3	0.01	0.00	0.24	0.479		
	LcB	5.1	14.7	0.04	1.53	0.25	0.476		
	Cb	20.6	0.0	0.04	6.18	0.40	0.657		
	Ge	19.8	0.0	0.04	5.94	0.25	0.410		
	TD	20.0	0.0	0.04	6.00	1.20	1.970		
	GxA	2.0	0.0	0.00	0.60	0.25	0.410		
	GgA	33.0	33.0	0.14	9.90	0.25	0.455		
TOTALS:		245.7	238.2		73.71				
SUB AREA TOTAL:			*483.9*						
CALCULATED:						*0.19579*	*0.406*	*0.15*	*0.43*

TOTAL WATERSHED:	***2145.4***

Appendix 2

SUMMARY OUTPUT HEC-1 CALCULATIONS

```
****************************************
*                                      *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)  *
*            SEPTEMBER 1990            *
*             VERSION 4.0              *
*                                      *
* RUN DATE  10/16/1997  TIME  09:51:38 *
*                                      *
****************************************
```

```
*************************************
*                                   *
*   U.S. ARMY CORPS OF ENGINEERS    *
*   HYDROLOGIC ENGINEERING CENTER   *
*         609 SECOND STREET         *
*      DAVIS, CALIFORNIA 95616      *
*          (916) 756-1104           *
*                                   *
*************************************
```

```
X     X  XXXXXXX   XXXXX          X
X     X  X        X     X        XX
X     X  X        X               X
XXXXXXX  XXXX     X       XXXXX   X
X     X  X        X               X
X     X  X        X     X         X
X     X  XXXXXXX   XXXXX         XXX
```

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

MODEL #1 - Phase 1 Routed Through Channel & Phase 2 10-Ye

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  1           ID       Model #1
  2           IT       5                    300
  3           IO       2

  4           KK  DEVELOP RAINFALL FOR BASIN G1
  5           KM   6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
  6           KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
  7           KM  L = 1.17  Kb = .050  Adj. Slope =   21.3
  8           BA    .413
  9           PB   1.989
 10           IN      15
 11           PC    .000    .008    .016    .025    .033    .041    .050    .058    .066    .074
 12           PC    .087    .099    .119    .138    .216    .377    .834    .911    .931    .950
 13           PC    .962    .973    .983    .991   1.000
 14           LG    .430    .255   3.500    .515   7.000
 15           UC   1.354    .985
 16           UA       0       5      16      30      65      77      84      90      94      97
 17           UA     100
 18           KO       2

 19           KK  Node17
 20           KM  basin routing through transfer pipe culverts
 21           RS       1    STOR
 22           SV       0     .02     .11      .2    1.79    3.38    7.57   13.81
 23           SE   77.82      78      79      80      81      82      83      84
 24           SL   77.82   15.70      .6      .5
 25           SS   83.80      15       3     1.5
 26           KO       2

 27           KK  Node10
 28           KM  Route water from culverts to middle of subdivision
 29           RS       1    STOR
 30           RC    .035    .035    .035     650   .0022      15
 31           RX       0      20     120   136.6   146.6   162.2   262.2   282.2
 32           RY      15      11      10    5.85    5.85      10      11      15
 33           KO       2

 34           KK  DEVELOPE RAINFALL FOR SUBBASIN G2
 35           KM   6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
 36           KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
 37           KM  L =  .41  Kb = .064  Adj. Slope =   48.9
 38           BA    .040
 39           PB   1.989
 40           LG    .430    .255   3.500   0.515  30.000
 41           UC    .458    .477
 42           UA       0       5      16      30      65      77      84      90      94      97
 43           UA     100
 44           KO       2

 45           KK  Node7
 46           KM  Route flow through basin to remove developed area storage
 47           RS       1    STOR       0
 48           SV       0    2.13    2.15    2.16    2.17    2.18    2.19    2.20    2.25     2.5
 49           SV    2.75
```

50	SQ	0	0	20	30	40	50	60	70	100	150

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  51          SQ     200
  52          KO       2

  53          KK  Node11
  54          KM  conflunce g1 and g2
  55          HC       2
  56          KO       2

  57          KK  Node10
  58          KM  Route water from culverts to middle of subdivision
  59          RS       1    STOR
  60          RC    .035    .035    .035     650   .0022      15
  61          RX       0      20     120   136.6   146.6   162.2   262.2   282.2
  62          RY      15      11      10    5.85    5.85      10      11      15
  63          KO       2

  64          KK  DEVELOPE RAINFALL FOR G3
  65          KM   6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
  66          KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
  67          KM  L =  .30  Kb = .072  Adj. Slope =   60.9
  68          BA    .010
  69          PB   1.989
  70          LG    .430    .255   3.500    .515  30.000
  71          UC    .296    .498
  72          UA       0       5      16      30      65      77      84      90      94      97
  73          UA     100
  74          KO       2

  75          KK  Node8
  76          KM  Route area through subdivision to remove retention storage
  77          RS       1    STOR
  78          SV       0     .58     .60     .61     .62     .63     .64
  79          SQ       0       0      10      20      30      40      50
  80          KO       2

  81          KK  Node13
  82          KM  confluence g1-g2 with g3
  83          KO                                      22
  84          HC       2
  85          KO       2

  86          KK  Node10
  87          KM  Route water from  middle of subdivision to old mcdowell
  88          RS       1    STOR
  89          RC    .035    .035    .035     650   .0022      15
  90          RX       0      20     120   136.6   146.6   162.2   262.2   282.2
  91          RY      15      11      10    5.85    5.85      10      11      15
  92          KO       2

  93          KK  DEVELOP RAINFALL FOR SUBBASIN G4
  94          KM   6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
  95          KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
  96          KM  L =  .98  Kb = .064  Adj. Slope =   26.3
  97          BA    .252
```

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 99           LG    .430    .255   3.500    .515  10.470
100           UC    .742    .576
101           UA       0       5      16      30      65      77      84      90      94      97
102           UA     100
103           KO       2

104           KK  Node9
105           KM  Route water through detention basin to remove subdivision storage
106           RS       1    STOR       0
107           SV       0    7.58    7.60    7.70    7.80
108           SE       0      10      11      12      13
109           SL       0     1.0     0.6     0.5
110           SS      10      50     2.7     1.5
111           KO       2

112           KK  Node15
113           KM  confluence g1-g2-g3 with g4
114           HC       2
115           KO       2

116           KK  Develope rainfall for phase 2 area
117           KM   6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
118           KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
119           KM  L =  .072  Kb = .064  Adj. Slope =   9.9
120           BA    .043
121           PB   1.989
122           LG    .430    .255   3.500   0.515  0.000
123           UC   1.087   1.030
124           UA       0       5      16      30      65      77      84      90      94      97
125           UA     100
126           KO       2

127           KK  Confluence g1-g4 with phase 2
128           HC       2
129           KO       2

130           KK  Route water through existing topography in Phase 2 and out culverts
131           RS       1    STOR       0       0
132           SV    6.12   12.21   20.88
133           SE     977     978     979
134           SQ       0   14.90   41.02
135           SE     977     978     979
136           KO       2
137           ZZ
```

RUNOFF SUMMARY
FLOW IN CUBIC FEET PER SECOND
TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD 6-HOUR	24-HOUR	72-HOUR	BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
HYDROGRAPH AT	DEVELO	97.	4.67	28.	7.	7.	.41		
ROUTED TO	Node17	97.	4.67	28.	7.	7.	.41	79.51	4.67
ROUTED TO	Node10	97.	4.75	28.	7.	7.	.41	7.94	4.75
HYDROGRAPH AT	DEVELO	25.	4.25	4.	1.	1.	.04		
ROUTED TO	Node7	0.	.08	0.	0.	0.	.04		
2 COMBINED AT	Node11	97.	4.75	28.	7.	7.	.45		
ROUTED TO	Node10	96.	4.83	28.	7.	7.	.45	7.94	4.83
HYDROGRAPH AT	DEVELO	7.	4.17	1.	0.	0.	.01		
ROUTED TO	Node8	0.	.08	0.	0.	0.	.01		
2 COMBINED AT	Node13	96.	4.83	28.	7.	7.	.46		
ROUTED TO	Node10	96.	4.83	28.	7.	7.	.46	7.93	4.83
HYDROGRAPH AT	DEVELO	104.	4.33	19.	5.	5.	.25		
ROUTED TO	Node9	14.	5.75	12.	5.	5.	.25	8.96	5.75
2 COMBINED AT	Node15	108.	4.92	40.	12.	11.	.71		
HYDROGRAPH AT	Develo	9.	4.58	3.	1.	1.	.04		

2 COMBINED AT									
	Conflu	117.	4.83	43.	12.	12.	.76		
ROUTED TO									
	Route	23.	7.58	20.	9.	9.	.76		
								978.32	7.58

*** NORMAL END OF HEC-1 ***

```
*****************************************
*                                       *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
*            SEPTEMBER 1990             *
*             VERSION 4.0               *
*                                       *
* RUN DATE  10/16/1997  TIME  09:52:35  *
*                                       *
*****************************************
```

```
*************************************
*                                   *
*   U.S. ARMY CORPS OF ENGINEERS    *
*   HYDROLOGIC ENGINEERING CENTER   *
*         609 SECOND STREET         *
*      DAVIS, CALIFORNIA 95616      *
*          (916) 756-1104           *
*                                   *
*************************************
```

```
X     X  XXXXXXX   XXXXX          X
X     X  X       X     X        XX
X     X  X       X              X
XXXXXXX  XXXX    X       XXXXX  X
X     X  X       X              X
X     X  X       X     X        X
X     X  XXXXXXX   XXXXX        XXX
```

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

MODEL #2 -

Phase 1 Routed Through Channels & Exist. Topo 100-Year

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  1           ID       model#2
  2           IT       5                    300
  3           IO       2

  4           KK  DEVELOP RAINFALL FOR BASIN G1
  5           KM   6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
  6           KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
  7           KM  L = 1.17  Kb = .050  Adj. Slope =   21.3
  8           BA    .413
  9           PB   2.961
 10           IN      15
 11           PC    .000    .008    .016    .025    .033    .041    .050    .058    .066    .074
 12           PC    .087    .099    .119    .138    .216    .377    .834    .911    .931    .950
 13           PC    .962    .973    .983    .991   1.000
 14           LG    .430    .255   3.500    .515   7.000
 15           UC    .887    .616
 16           UA       0       5      16      30      65      77      84      90      94      97
 17           UA     100
 18           KO       2

 19           KK  Node17
 20           KM  basin routing through transfer drain culverts
 21           RS       1    STOR       0       0
 22           SV       0     .02     .11     .20    1.79    3.38    7.57   13.81
 23           SE   77.82      78      79      80      81      82      83      84
 24           SL   77.82   15.70      .6      .5
 25           SS   83.80      15     2.7     1.5
 26           KO       2

 27           KK  Node10
 28           KM  Route water from culverts to middle of subdivision
 29           RS       1    STOR       0       0
 30           RC    .035    .035    .035     650   .0022      15
 31           RX       0      20     120   136.6   146.6   162.2   262.2   282.2
 32           RY      15      11      10    5.85    5.85      10      11      15
 33           KO       2

 34           KK  DEVELOPE RAINFALL FOR SUBBASIN G2
 35           KM   6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
 36           KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
 37           KM  L =  .41  Kb = .064  Adj. Slope =   48.9
 38           BA    .040
 39           PB   2.961
 40           LG    .430    .255   3.500   0.515  30.000
 41           UC    .458    .477
 42           UA       0       5      16      30      65      77      84      90      94      97
 43           UA     100
 44           KO       2

 45           KK  Node7
 46           KM  Route flow through basin to remove developed area storage
 47           RS       1    STOR       0       0
 48           SV       0    2.13    2.15    2.16    2.17    2.18    2.19    2.20    2.25    2.50
 49           SV    2.75
```

50 SQ 0 0 10 15 20 25 30 35 40 45

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  51          SQ      50
  52          KO       2

  53          KK  Node11
  54          KM  conflunce g1 and g2
  55          HC       2
  56          KO       2

  57          KK  Node10
  58          KM  Route water from culverts to middle of subdivision
  59          RS       1    STOR       0       0
  60          RC    .035    .035    .035     650   .0022      15
  61          RX       0      20     120   136.6   146.6   162.2   262.2   282.2
  62          RY      15      11      10    5.85    5.85      10      11      15
  63          KO       2

  64          KK  DEVELOPE RAINFALL FOR G3
  65          KM   6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
  66          KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
  67          KM  L =  .30  Kb = .072  Adj. Slope =   60.9
  68          BA    .010
  69          PB   2.961
  70          LG    .430    .255   3.500    .515  30.000
  71          UC    .296    .498
  72          UA       0       5      16      30      65      77      84      90      94      97
  73          UA     100
  74          KO       2

  75          KK  Node8
  76          KM  Route area through subdivision to remove retention storage
  77          RS       1    STOR       0       0
  78          SV       0     .58     .60     .61     .62     .63     .64
  79          SQ       0       0      10      20      30      40      50
  80          KO       2

  81          KK  Node13
  82          KM  confluence g1-g2 with g3
  83          KO       2
  84          HC       2
  85          KO       2

  86          KK  Node10
  87          KM  Route water from  middle of subdivision to old mcdowell
  88          RS       1    STOR       0       0
  89          RC    .035    .035    .035     650   .0022      15
  90          RX       0      20     120   136.6   146.6   162.2   262.2   282.2
  91          RY      15      11      10    5.85    5.85      10      11      15
  92          KO       2

  93          KK  DEVELOP RAINFALL FOR SUBBASIN G4
  94          KM   6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
  95          KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
  96          KM  L =  .98  Kb = .064  Adj. Slope =   26.3
  97          BA    .252
```

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 99           LG    .430    .255   3.500    .515  10.470
100           UC    .742    .576
101           UA       0       5      16      30      65      77      84      90      94      97
102           UA     100
103           KO       2

104           KK  Node9
105           KM  Route water through detention basin to remove subdivision storage
106           RS       1    STOR       0       0
107           SV       0    7.58       8       9      10
108           SE       0      10      11      12      13
109           SL       0       1      .6      .5
110           SS      10      25     2.7     1.5
111           KO       2

112           KK  Node15
113           KM  confluence g1-g2-g3 with g4
114           HC       2
115           KO       2

116           KK  Develope rainfall for phase 2 area
117           KM   6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
118           KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
119           KM  L =  .072  Kb = .064  Adj. Slope =   9.9
120           BA    .043
121           PB   2.961
122           LG    .430    .255   3.500    .515   0.000
123           UC    .604    .485
124           UA       0       5      16      30      65      77      84      90      94      97
125           UA     100
126           KO       2

127           KK  Confluence g1-g4 with phase 2
128           HC       2
129           KO       2

130           KK  Route water through existing topography in Phase 2 and out culverts
131           RS       1    ELEV     974       0
132           SV       0    6.12   12.21   20.88   32.25   46.84   65.17   86.92  111.77
133           SE     974     977     978     979     980     981     982     983     984
134           SQ       0       0   14.90   41.02   90.10  151.37  220.14  286.54  345.40
135           SE     974     977     978     979     980     981     982     983     984
136           KO       2
137           ZZ
```

RUNOFF SUMMARY
FLOW IN CUBIC FEET PER SECOND
TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD 6-HOUR	24-HOUR	72-HOUR	BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
HYDROGRAPH AT	DEVELO	294.	4.42	56.	14.	14.	.41		
ROUTED TO	Node17	168.	5.00	56.	14.	14.	.41	82.77	5.00
ROUTED TO	Node10	168.	5.00	56.	14.	14.	.41	8.60	5.00
HYDROGRAPH AT	DEVELO	45.	4.17	7.	2.	2.	.04		
ROUTED TO	Node7	33.	4.58	3.	1.	1.	.04		
2 COMBINED AT	Node11	193.	4.58	59.	15.	14.	.45		
ROUTED TO	Node10	188.	4.67	59.	15.	14.	.45	8.77	4.67
HYDROGRAPH AT	DEVELO	12.	4.17	2.	0.	0.	.01		
ROUTED TO	Node8	8.	4.58	1.	0.	0.	.01		
2 COMBINED AT	Node13	193.	4.67	60.	15.	14.	.46		
ROUTED TO	Node10	192.	4.75	60.	15.	14.	.46	8.79	4.75
HYDROGRAPH AT	DEVELO	203.	4.33	36.	9.	9.	.25		
ROUTED TO	Node9	138.	4.75	28.	9.	9.	.25	,11.48	4.75
2 COMBINED AT	Node15	329.	4.75	86.	24.	23.	.71		
HYDROGRAPH AT	Develo	38.	4.25	5.	1.	1.	.04		

2 COMBINED AT									
	Conflu	348.	4.75	92.	25.	24.	.76		
ROUTED TO									
	Route	90.	6.25	58.	22.	21.	.76		
								979.99	6.25

*** NORMAL END OF HEC-1 ***

```
*****************************************
*                                       *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
*            SEPTEMBER 1990             *
*             VERSION 4.0               *
*                                       *
*  RUN DATE  10/16/1997  TIME  09:53:10 *
*                                       *
*****************************************
```

```
*************************************
*                                   *
*   U.S. ARMY CORPS OF ENGINEERS    *
*   HYDROLOGIC ENGINEERING CENTER   *
*         609 SECOND STREET         *
*      DAVIS, CALIFORNIA 95616      *
*          (916) 756-1104           *
*                                   *
*************************************
```

```
X     X  XXXXXXX   XXXXX          X
X     X  X       X     X        XX
X     X  X       X               X
XXXXXXX  XXXX    X       XXXXX   X
X     X  X       X               X
X     X  X       X     X         X
X     X  XXXXXXX   XXXXX        XXX
```

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

MODEL #3 - Phase 1 Agua Fria @ Flood Elevation = 984.0

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  1           ID       model #3
  2           IT       5                    300
  3           IO       2

  4           KK  DEVELOP RAINFALL FOR BASIN G1
  5           KM   6-HOUR RAINFALL PATTERN NO. 1.23 WAS USED TO FIND TC & R FOR THIS BASIN
  6           KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .990
  7           KM  L = 1.17  Kb = .050  Adj. Slope =   21.3
  8           BA    .413
  9           PB   1.188
 10           IN      15
 11           PC    .000    .008    .016    .025    .033    .041    .050    .058    .066    .074
 12           PC    .087    .099    .118    .144    .224    .394    .801    .894    .924    .947
 13           PC    .959    .970    .981    .990   1.000
 14           LG    .430    .255   3.500    .515   7.000
 15           UC   1.000    .694
 16           UA       0       5      16      30      65      77      84      90      94      97
 17           UA     100
 18           KO       2

 19           KK  Node17
 20           KM  basin routing through transfer drain culverts
 21           RS       1    STOR       0       0
 22           SV       0     .02     .11      .2    1.79    3.38    7.57   13.81
 23           SE   77.82      78      79      80      81      82      83      84
 24           SL   77.82   15.70      .6      .5
 25           SS   83.80      15       3     1.5
 26           KO       2

 27           KK  Node10
 28           KM  Route water from culverts to middle of subdivision
 29           RS       1    STOR       0       0
 30           RC    .035    .035    .035     650   .0022      15
 31           RX       0      20     120   136.6   146.6   162.2   262.2   282.2
 32           RY      15      11      10    5.85    5.85      10      11      15
 33           KO       2

 34           KK  DEVELOPE RAINFALL FOR SUBBASIN G2
 35           KM   6-HOUR RAINFALL PATTERN NO. 1.23 WAS USED TO FIND TC & R FOR THIS BASIN
 36           KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .990
 37           KM  L =  .41  Kb = .064  Adj. Slope =   48.9
 38           BA    .040
 39           PB   1.188
 40           LG    .430    .255   3.500   0.515  30.000
 41           UC    .796    .881
 42           UA       0       5      16      30      65      77      84      90      94      97
 43           UA     100
 44           KO       2

 45           KK  Node7
 46           KM  Route flow through basin to remove developed area storage
 47           RS       1    STOR       0       0
 48           SV       0    2.13    2.15    2.16    2.17    2.18    2.19    2.20    2.25     2.5
 49           SV    2.75
```

50	SQ	0	0	20	30	40	50	60	70	100	150

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  51          SQ     200
  52          KO       2

  53          KK  Node11
  54          KM  conflunce g1 and g2
  55          HC       2
  56          KO       2

  57          KK  Node10
  58          KM  Route water from culverts to middle of subdivision
  59          RS       1    STOR       0       0
  60          RC    .035    .035    .035     650   .0022      15
  61          RX       0      20     120   136.6   146.6   162.2   262.2   282.2
  62          RY      15      11      10    5.85    5.85      10      11      15
  63          KO       2

  64          KK  DEVELOPE RAINFALL FOR G3
  65          KM   6-HOUR RAINFALL PATTERN NO. 1.23 WAS USED TO FIND TC & R FOR THIS BASIN
  66          KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .990
  67          KM  L =  .30  Kb = .072  Adj. Slope =   60.9
  68          BA    .010
  69          PB   1.188
  70          LG    .430    .255   3.500    .515  30.000
  71          UC    .642   1.191
  72          UA       0       5      16      30      65      77      84      90      94      97
  73          UA     100
  74          KO       2

  75          KK  Node8
  76          KM  Route area through subdivision to remove retention storage
  77          RS       1    STOR       0       0
  78          SV       0     .58     .60     .61     .62     .63     .64
  79          SQ       0       0      10      20      30      40      50
  80          KO       2

  81          KK  Node13
  82          KM  confluence g1-g2 with g3
  83          KO       2
  84          HC       2
  85          KO       2

  86          KK  Node10
  87          KM  Route water from  middle of subdivision to old mcdowell
  88          RS       1    STOR       0       0
  89          RC    .035    .035    .035     650   .0022      15
  90          RX       0      20     120   136.6   146.6   162.2   262.2   282.2
  91          RY      15      11      10    5.85    5.85      10      11      15
  92          KO       2

  93          KK  DEVELOP RAINFALL FOR SUBBASIN G4
  94          KM   6-HOUR RAINFALL PATTERN NO. 1.23 WAS USED TO FIND TC & R FOR THIS BASIN
  95          KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .990
  96          KM  L =  .98  Kb = .064  Adj. Slope =   26.3
  97          BA    .252
```

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 99           LG    .430    .255   3.500    .515  10.470
100           UC   1.000    .799
101           UA       0       5      16      30      65      77      84      90      94      97
102           UA     100
103           KO       2

104           KK  Node9
105           KM  Route water through detention basin to remove subdivision storage
106           RS       1    STOR       0       0
107           SV       0    7.58    7.60    7.70    7.80
108           SE       0      10      11      12      13
109           SL       0       1      .6      .5
110           SS      10      50     2.7     1.5
111           KO       2

112           KK  Node15
113           KM  confluence g1-g2-g3 with g4
114           HC       2
115           KO       2

116           KK  Develope rainfall for phase 2 area
117           KM   6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
118           KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
119           KM  L =  .072  Kb = .064  Adj. Slope =   9.9
120           BA    .043
121           PB   1.188
122           LG    .430    .255   3.500    .515   0.000
123           UC   1.000   0.938
124           UA       0       5      16      30      65      77      84      90      94      97
125           UA     100
126           KO       2

127           KK  Confluence g1-g4 with phase 2
128           HC       2
129           KO       2

130           KK  Route water through existing topography in Phase 2 and close flapgates on culv
131           RS       1    STOR       0       0
132           SV       0    2.50    6.12   12.21   20.88
133           SE     974     976     977     978     979
134           SQ       0       0       0       0       0
135           SE     974     976     977     978     979
136           KO       2
137           ZZ
```

RUNOFF SUMMARY
FLOW IN CUBIC FEET PER SECOND
TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD 6-HOUR	24-HOUR	72-HOUR	BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
HYDROGRAPH AT	DEVELO	19.	4.50	5.	1.	1.	.41		
ROUTED TO	Node17	19.	4.50	5.	1.	1.	.41	77.93	4.50
ROUTED TO	Node10	18.	4.58	5.	1.	1.	.41	6.71	4.58
HYDROGRAPH AT	DEVELO	5.	4.42	2.	0.	0.	.04		
ROUTED TO	Node7	0.	.08	0.	0.	0.	.04		
2 COMBINED AT	Node11	18.	4.58	5.	1.	1.	.45		
ROUTED TO	Node10	18.	4.75	5.	1.	1.	.45	6.69	4.75
HYDROGRAPH AT	DEVELO	1.	4.42	0.	0.	0.	.01		
ROUTED TO	Node8	0.	.08	0.	0.	0.	.01		
2 COMBINED AT	Node13	18.	4.75	5.	1.	1.	.46		
ROUTED TO	Node10	18.	4.83	5.	1.	1.	.46	6.68	4.83
HYDROGRAPH AT	DEVELO	14.	4.50	4.	1.	1.	.25		
ROUTED TO	Node9	5.	5.67	4.	1.	1.	.25	1.25	5.67
2 COMBINED AT	Node15	22.	4.83	8.	2.	2.	.71		
HYDROGRAPH AT	Develo	1.	4.50	0.	0.	0.	.04		

2 COMBINED AT									
	Conflu	23.	4.83	8.	2.	2.	.76		
ROUTED TO									
	Route	0.	.08	0.	0.	0.	.76		
								976.55	20.92

*** NORMAL END OF HEC-1 ***

```
*****************************************
*                                       *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
*            SEPTEMBER 1990             *
*             VERSION 4.0               *
*                                       *
*  RUN DATE  10/16/1997  TIME  09:53:48 *
*                                       *
*****************************************
```

```
*************************************
*                                   *
*   U.S. ARMY CORPS OF ENGINEERS    *
*   HYDROLOGIC ENGINEERING CENTER   *
*         609 SECOND STREET         *
*      DAVIS, CALIFORNIA 95616      *
*          (916) 756-1104           *
*                                   *
*************************************
```

```
X     X  XXXXXXX   XXXXX          X
X     X  X        X     X        XX
X     X  X        X              X
XXXXXXX  XXXX     X       XXXXX  X
X     X  X        X              X
X     X  X        X     X        X
X     X  XXXXXXX   XXXXX         XXX
```

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

MODEL #4 - Phase 2 Proposed Channel 10-Year

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  1           ID       Model # 4
  2           IT       5                    300
  3           IO       2

  4           KK  DEVELOP RAINFALL FOR BASIN G1
  5           KM   6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
  6           KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
  7           KM  L = 1.17  Kb = .050  Adj. Slope =   21.3
  8           BA    .413
  9           PB   1.989
 10           IN      15
 11           PC    .000    .008    .016    .025    .033    .041    .050    .058    .066    .074
 12           PC    .087    .099    .119    .138    .216    .377    .834    .911    .931    .950
 13           PC    .962    .973    .983    .991   1.000
 14           LG    .430    .255   3.500    .515   7.000
 15           UC   1.354    .985
 16           UA       0       5      16      30      65      77      84      90      94      97
 17           UA     100
 18           KO       2

 19           KK  Node17
 20           KM  basin routing through transfer pipe culverts
 21           RS       1    STOR       0       0
 22           SV       0     .02     .11      .2    1.79    3.38    7.57   13.81
 23           SE   77.82      78      79      80      81      82      83      84
 24           SL   77.82   15.70      .6      .5
 25           SS   83.80      15       3     1.5
 26           KO       2

 27           KK  Node10
 28           KM  Route water from culverts to middle of subdivision
 29           RS       1    STOR       0       0
 30           RC    .035    .035    .035     650   .0022      15
 31           RX       0      20     120   136.6   146.6   162.2   262.2   282.2
 32           RY      15      11      10    5.85    5.85      10      11      15
 33           KO       2

 34           KK  DEVELOPE RAINFALL FOR SUBBASIN G2
 35           KM   6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
 36           KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
 37           KM  L =  .41  Kb = .064  Adj. Slope =   48.9
 38           BA    .040
 39           PB   1.989
 40           LG    .430    .255   3.500   0.515  30.000
 41           UC    .458    .477
 42           UA       0       5      16      30      65      77      84      90      94      97
 43           UA     100
 44           KO       2

 45           KK  Node7
 46           KM  Route flow through basin to remove developed area storage
 47           RS       1    STOR       0       0
 48           SV       0    2.13    2.15    2.16    2.17    2.18    2.19    2.20    2.25     2.5
 49           SV    2.75
```

50 SQ 0 0 20 30 40 50 60 70 100 150

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  51          SQ     200
  52          KO       2

  53          KK  Node11
  54          KM  conflunce g1 and g2
  55          HC       2
  56          KO       2

  57          KK  Node10
  58          KM  Route water from culverts to middle of subdivision
  59          RS       1    STOR       0       0
  60          RC    .035    .035    .035     650   .0022      15
  61          RX       0      20     120   136.6   146.6   162.2   262.2   282.2
  62          RY      15      11      10    5.85    5.85      10      11      15
  63          KO       2

  64          KK  DEVELOPE RAINFALL FOR G3
  65          KM   6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
  66          KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
  67          KM  L =  .30  Kb = .072  Adj. Slope =   60.9
  68          BA    .010
  69          PB   1.989
  70          LG    .430    .255   3.500    .515  30.000
  71          UC    .296    .498
  72          UA       0       5      16      30      65      77      84      90      94      97
  73          UA     100
  74          KO       2

  75          KK  Node8
  76          KM  Route area through subdivision to remove retention storage
  77          RS       1    STOR       0       0
  78          SV       0     .58     .60     .61     .62     .63     .64
  79          SQ       0       0      10      20      30      40      50
  80          KO       2

  81          KK  Node13
  82          KM  confluence g1-g2 with g3
  83          KO       2
  84          HC       2
  85          KO       2

  86          KK  Node10
  87          KM  Route water from  middle of subdivision to old mcdowell
  88          RS       1    STOR       0       0
  89          RC    .035    .035    .035     650   .0022      15
  90          RX       0      20     120   136.6   146.6   162.2   262.2   282.2
  91          RY      15      11      10    5.85    5.85      10      11      15
  92          KO       2

  93          KK  DEVELOP RAINFALL FOR SUBBASIN G4
  94          KM   6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
  95          KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
  96          KM  L =  .98  Kb = .064  Adj. Slope =   26.3
  97          BA    .252
```

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 99           LG    .430    .255   3.500    .515  10.470
100           UC    .742    .576
101           UA       0       5      16      30      65      77      84      90      94      97
102           UA     100
103           KO       2

104           KK  Node9
105           KM  Route water through detention basin to remove subdivision storage
106           RS       1    STOR       0       0
107           SV       0    7.58    7.60    7.70    7.80
108           SE       0      10      11      12      13
109           SL       0     1.0     0.6     0.5
110           SS      10      50     2.7     1.5
111           KO       2

112           KK  Node15
113           KM  confluence g1-g2-g3 with g4
114           HC       2
115           KO       2

116           KK  Develope rainfall for phase 2 area
117           KM   6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
118           KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
119           KM  L =  .072  Kb = .064  Adj. Slope =   9.9
120           BA    .043
121           PB   1.989
122           LG    .430    .255   3.500    .515   0.000
123           UC   1.087   1.030
124           UA       0       5      16      30      65      77      84      90      94      97
125           UA     100
126           KO       2

127           KK  Node16
128           KM  confluence g1-g2-g3-g4 and phase 2
129           HC       2
130           KO       2

131           KK  Route water through phase 2 channel thru existing 60' RCPs
132           RS       1    ELEV     974       0
133           SV       0    3.64    7.29   12.14   18.22   25.50   34.00   43.72   54.65
134           SE     974     977     978     979     980     981     982     983     984
135           SQ       0       0   14.90   41.02   90.10  151.37  220.14  286.54  345.40
136           SE     974     977     978     979     980     981     982     983     984
137           KO       2
138           ZZ
```

RUNOFF SUMMARY
FLOW IN CUBIC FEET PER SECOND
TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD 6-HOUR	24-HOUR	72-HOUR	BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
HYDROGRAPH AT	DEVELO	97.	4.67	28.	7.	7.	.41		
ROUTED TO	Node17	97.	4.67	28.	7.	7.	.41	79.51	4.67
ROUTED TO	Node10	97.	4.75	28.	7.	7.	.41	7.94	4.75
HYDROGRAPH AT	DEVELO	25.	4.25	4.	1.	1.	.04		
ROUTED TO	Node7	0.	.08	0.	0.	0.	.04		
2 COMBINED AT	Node11	97.	4.75	28.	7.	7.	.45		
ROUTED TO	Node10	96.	4.83	28.	7.	7.	.45	7.94	4.83
HYDROGRAPH AT	DEVELO	7.	4.17	1.	0.	0.	.01		
ROUTED TO	Node8	0.	.08	0.	0.	0.	.01		
2 COMBINED AT	Node13	96.	4.83	28.	7.	7.	.46		
ROUTED TO	Node10	96.	4.83	28.	7.	7.	.46	7.93	4.83
HYDROGRAPH AT	DEVELO	104.	4.33	19.	5.	5.	.25		
ROUTED TO	Node9	14.	5.75	12.	5.	5.	.25	8.96	5.75
2 COMBINED AT	Node15	108.	4.92	40.	12.	11.	.71		
HYDROGRAPH AT	Develo	9.	4.58	3.	1.	1.	.04		

2 COMBINED AT									
	Node16	117.	4.83	43.	12.	12.	.76		
ROUTED TO									
	Route	40.	6.67	29.	11.	10.	.76		
								978.94	6.67

*** NORMAL END OF HEC-1 ***

```
*****************************************
*                                       *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
*            SEPTEMBER 1990             *
*             VERSION 4.0               *
*                                       *
* RUN DATE  10/16/1997  TIME  09:54:22  *
*                                       *
*****************************************
```

```
*************************************
*                                   *
*   U.S. ARMY CORPS OF ENGINEERS    *
*   HYDROLOGIC ENGINEERING CENTER   *
*         609 SECOND STREET         *
*      DAVIS, CALIFORNIA 95616      *
*          (916) 756-1104           *
*                                   *
*************************************
```

```
X     X  XXXXXXX   XXXXX          X
X     X  X        X     X        XX
X     X  X        X              X
XXXXXXX  XXXX     X       XXXXX  X
X     X  X        X              X
X     X  X        X     X        X
X     X  XXXXXXX   XXXXX         XXX
```

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

MODEL #5 - Phase 2 Proposed Channel 100-Year

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  1           ID       model #5
  2           IT       5                    300
  3           IO       2

  4           KK  DEVELOP RAINFALL FOR BASIN G1
  5           KM   6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
  6           KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
  7           KM  L = 1.17  Kb = .050  Adj. Slope =   21.3
  8           BA    .413
  9           PB   2.961
 10           IN      15
 11           PC    .000    .008    .016    .025    .033    .041    .050    .058    .066    .074
 12           PC    .087    .099    .119    .138    .216    .377    .834    .911    .931    .950
 13           PC    .962    .973    .983    .991   1.000
 14           LG    .430    .255   3.500    .515   7.000
 15           UC    .887    .616
 16           UA       0       5      16      30      65      77      84      90      94      97
 17           UA     100
 18           KO       2

 19           KK  Node17
 20           KM  basin routing through transfer drain culverts
 21           RS       1    STOR       0       0
 22           SV       0     .02     .11     .20    1.79    3.38    7.57   13.81
 23           SE   77.82      78      79      80      81      82      83      84
 24           SL   77.82   15.70      .6      .5
 25           SS   83.80      15     2.7     1.5
 26           KO       2

 27           KK  Node10
 28           KM  Route water from culverts to middle of subdivision
 29           RS       1    STOR       0       0
 30           RC    .035    .035    .035     650   .0022      15
 31           RX       0      20     120   136.6   146.6   162.2   262.2   282.2
 32           RY      15      11      10    5.85    5.85      10      11      15
 33           KO       2

 34           KK  DEVELOPE RAINFALL FOR SUBBASIN G2
 35           KM   6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
 36           KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
 37           KM  L =  .41  Kb = .064  Adj. Slope =   48.9
 38           BA    .040
 39           PB   2.961
 40           LG    .430    .255   3.500   0.515  30.000
 41           UC    .458    .477
 42           UA       0       5      16      30      65      77      84      90      94      97
 43           UA     100
 44           KO       2

 45           KK  Node7
 46           KM  Route flow through basin to remove developed area storage
 47           RS       1    STOR       0       0
 48           SV       0    2.13    2.15    2.16    2.17    2.18    2.19    2.20    2.25     2.5
 49           SV    2.75
```

50 SQ 0 0 10 15 20 25 30 35 40 45

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  51          SQ      50
  52          KO       2

  53          KK  Node11
  54          KM  conflunce g1 and g2
  55          HC       2
  56          KO       2

  57          KK  Node10
  58          KM  Route water from culverts to middle of subdivision
  59          RS       1    STOR       0       0
  60          RC    .035    .035    .035     650   .0022      15
  61          RX       0      20     120   136.6   146.6   162.2   262.2   282.2
  62          RY      15      11      10    5.85    5.85      10      11      15
  63          KO       2

  64          KK  DEVELOPE RAINFALL FOR G3
  65          KM   6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
  66          KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
  67          KM  L =  .30  Kb = .072  Adj. Slope =   60.9
  68          BA    .010
  69          PB   2.961
  70          LG    .430    .255   3.500    .515  30.000
  71          UC    .296    .498
  72          UA       0       5      16      30      65      77      84      90      94      97
  73          UA     100
  74          KO       2

  75          KK  Node8
  76          KM  Route area through subdivision to remove retention storage
  77          RS       1    STOR       0       0
  78          SV       0     .58     .60     .61     .62     .63     .64
  79          SQ       0       0      10      20      30      40      50
  80          KO       2

  81          KK  Node13
  82          KM  confluence g1-g2 with g3
  83          KO       2
  84          HC       2
  85          KO       2

  86          KK  Node10
  87          KM  Route water from  middle of subdivision to old mcdowell
  88          RS       1    STOR       0       0
  89          RC    .035    .035    .035     650   .0022      15
  90          RX       0      20     120   136.6   146.6   162.2   262.2   282.2
  91          RY      15      11      10    5.85    5.85      10      11      15
  92          KO       2

  93          KK  DEVELOP RAINFALL FOR SUBBASIN G4
  94          KM   6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
  95          KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
  96          KM  L =  .98  Kb = .064  Adj. Slope =   26.3
  97          BA    .252
```

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 99           LG    .430    .255   3.500    .515  10.470
100           UC    .742    .576
101           UA       0       5      16      30      65      77      84      90      94      97
102           UA     100
103           KO       2

104           KK  Node9
105           KM  Route water through detention basin to remove subdivision storage
106           RS       1    STOR       0       0
107           SV       0    7.58       8       9      10
108           SE       0      10      11      12      13
109           SL       0       1      .6      .5
110           SS      10      25     2.7     1.5
111           KO       2

112           KK  Node15
113           KM  confluence g1-g2-g3 with g4
114           HC       2
115           KO       2

116           KK  Develope rainfall for phase 2 area
117           KM   6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
118           KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
119           KM  L =  .072  Kb = .064  Adj. Slope =   9.9
120           BA    .043
121           PB   2.961
122           LG    .430    .255   3.500    .515   0.000
123           UC    .604    .485
124           UA       0       5      16      30      65      77      84      90      94      97
125           UA     100
126           KO       2

127           KK  Node16
128           KM  confluence g1-g2-g3-g4 and phase 2
129           HC       2
130           KO       2

131           KK   Route water through phase 2 channel thru existing 60 " rcps
132           RS       1    ELEV     974       0
133           SV       0    3.64    7.29   12.14   18.22   25.50   34.00   43.72   54.65
134           SE     974     977     978     979     980     981     982     983     984
135           SQ       0       0   14.90   41.02   90.10  151.37  220.14  286.54  345.40
136           SE     974     977     978     979     980     981     982     983     984
137           KO       2
138           ZZ
```

RUNOFF SUMMARY
FLOW IN CUBIC FEET PER SECOND
TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD 6-HOUR	24-HOUR	72-HOUR	BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
HYDROGRAPH AT	DEVELO	294.	4.42	56.	14.	14.	.41		
ROUTED TO	Node17	168.	5.00	56.	14.	14.	.41	82.77	5.00
ROUTED TO	Node10	168.	5.00	56.	14.	14.	.41	8.60	5.00
HYDROGRAPH AT	DEVELO	45.	4.17	7.	2.	2.	.04		
ROUTED TO	Node7	33.	4.58	3.	1.	1.	.04		
2 COMBINED AT	Node11	193.	4.58	59.	15.	14.	.45		
ROUTED TO	Node10	188.	4.67	59.	15.	14.	.45	8.77	4.67
HYDROGRAPH AT	DEVELO	12.	4.17	2.	0.	0.	.01		
ROUTED TO	Node8	8.	4.58	1.	0.	0.	.01		
2 COMBINED AT	Node13	193.	4.67	60.	15.	14.	.46		
ROUTED TO	Node10	192.	4.75	60.	15.	14.	.46	8.79	4.75
HYDROGRAPH AT	DEVELO	203.	4.33	36.	9.	9.	.25		
ROUTED TO	Node9	138.	4.75	28.	9.	9.	.25	11.48	4.75
2 COMBINED AT	Node15	329.	4.75	86.	24.	23.	.71		
HYDROGRAPH AT	Develo	38.	4.25	5.	1.	1.	.04		

2 COMBINED AT									
	Node16	348.	4.75	92.	25.	24.	.76		
ROUTED TO									
	Route	148.	6.08	76.	23.	23.	.76		
								980.94	6.08

*** NORMAL END OF HEC-1 ***

```
*****************************************
*                                       *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
*            SEPTEMBER 1990             *
*             VERSION 4.0               *
*                                       *
*  RUN DATE  10/16/1997  TIME  09:55:04 *
*                                       *
*****************************************
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```
*************************************
*                                   *
*   U.S. ARMY CORPS OF ENGINEERS    *
*   HYDROLOGIC ENGINEERING CENTER   *
*         609 SECOND STREET         *
*      DAVIS, CALIFORNIA 95616      *
*         (916) 756-1104            *
*                                   *
*************************************
```

```
X     X  XXXXXXX   XXXXX          X
X     X  X        X     X        XX
X     X  X        X              X
XXXXXXX  XXXX     X       XXXXX  X
X     X  X        X              X
X     X  X        X     X        X
X     X  XXXXXXX   XXXXX         XXX
```

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

MODEL #6 - Phase 2 2-Year w/ Flapgates Closed on Channel

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  1           ID       model #6
  2           IT       5                    300
  3           IO       2

  4           KK  DEVELOP RAINFALL FOR BASIN G1
  5           KM   6-HOUR RAINFALL PATTERN NO. 1.23 WAS USED TO FIND TC & R FOR THIS BASIN
  6           KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .990
  7           KM  L = 1.17  Kb = .050  Adj. Slope =   21.3
  8           BA    .413
  9           PB   1.188
 10           IN      15
 11           PC    .000    .008    .016    .025    .033    .041    .050    .058    .066    .074
 12           PC    .087    .099    .118    .144    .224    .394    .801    .894    .924    .947
 13           PC    .959    .970    .981    .990   1.000
 14           LG    .430    .255   3.500    .515   7.000
 15           UC   1.000    .694
 16           UA       0       5      16      30      65      77      84      90      94      97
 17           UA     100
 18           KO       2

 19           KK  Node17
 20           KM  basin routing through transfer drain culverts
 21           RS       1    STOR       0       0
 22           SV       0     .02     .11      .2    1.79    3.38    7.57   13.81
 23           SE   77.82      78      79      80      81      82      83      84
 24           SL   77.82   15.70      .6      .5
 25           SS   83.80      15       3     1.5
 26           KO       2

 27           KK  Node10
 28           KM  Route water from culverts to middle of subdivision
 29           RS       1    STOR       0       0
 30           RC    .035    .035    .035     650   .0022      15
 31           RX       0      20     120   136.6   146.6   162.2   262.2   282.2
 32           RY      15      11      10    5.85    5.85      10      11      15
 33           KO       2

 34           KK  DEVELOPE RAINFALL FOR SUBBASIN G2
 35           KM   6-HOUR RAINFALL PATTERN NO. 1.23 WAS USED TO FIND TC & R FOR THIS BASIN
 36           KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .990
 37           KM  L =  .41  Kb = .064  Adj. Slope =   48.9
 38           BA    .040
 39           PB   1.188
 40           LG    .430    .255   3.500   0.515  30.000
 41           UC    .796    .881
 42           UA       0       5      16      30      65      77      84      90      94      97
 43           UA     100
 44           KO       2

 45           KK  Node7
 46           KM  Route flow through basin to remove developed area storage
 47           RS       1    STOR       0       0
 48           SV       0    2.13    2.15    2.16    2.17    2.18    2.19    2.20    2.25     2.5
 49           SV    2.75
```

50 SQ 0 0 20 30 40 50 60 70 100 150

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  51          SQ     200
  52          KO       2

  53          KK  Node11
  54          KM  conflunce g1 and g2
  55          HC       2
  56          KO       2

  57          KK  Node10
  58          KM  Route water from culverts to middle of subdivision
  59          RS       1    STOR       0       0
  60          RC    .035    .035    .035     650   .0022      15
  61          RX       0      20     120   136.6   146.6   162.2   262.2   282.2
  62          RY      15      11      10    5.85    5.85      10      11      15
  63          KO       2

  64          KK  DEVELOPE RAINFALL FOR G3
  65          KM   6-HOUR RAINFALL PATTERN NO. 1.23 WAS USED TO FIND TC & R FOR THIS BASIN
  66          KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .990
  67          KM  L =  .30  Kb = .072  Adj. Slope =   60.9
  68          BA    .010
  69          PB   1.188
  70          LG    .430    .255   3.500    .515  30.000
  71          UC    .642   1.191
  72          UA       0       5      16      30      65      77      84      90      94      97
  73          UA     100
  74          KO       2

  75          KK  Node8
  76          KM  Route area through subdivision to remove retention storage
  77          RS       1    STOR       0       0
  78          SV       0     .58     .60     .61     .62     .63     .64
  79          SQ       0       0      10      20      30      40      50
  80          KO       2

  81          KK  Node13
  82          KM  confluence g1-g2 with g3
  83          KO       2
  84          HC       2
  85          KO       2

  86          KK  Node10
  87          KM  Route water from  middle of subdivision to old mcdowell
  88          RS       1    STOR       0       0
  89          RC    .035    .035    .035     650   .0022      15
  90          RX       0      20     120   136.6   146.6   162.2   262.2   282.2
  91          RY      15      11      10    5.85    5.85      10      11      15
  92          KO       2

  93          KK  DEVELOP RAINFALL FOR SUBBASIN G4
  94          KM   6-HOUR RAINFALL PATTERN NO. 1.23 WAS USED TO FIND TC & R FOR THIS BASIN
  95          KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .990
  96          KM  L =  .98  Kb = .064  Adj. Slope =   26.3
  97          BA    .252
```

```
LINE      ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 99       LG    .430    .255   3.500    .515  10.470
100       UC   1.000    .799
101       UA       0       5      16      30      65      77      84      90      94      97
102       UA     100
103       KO       2

104       KK  Node9
105       KM  Route water through detention basin to remove subdivision storage
106       RS       1    STOR       0       0
107       SV       0    7.58    7.60    7.70    7.80
108       SE       0      10      11      12      13
109       SL       0       1      .6      .5
110       SS      10      50     2.7     1.5
111       KO       2

112       KK  Node15
113       KM  confluence g1-g2-g3 with g4
114       HC       2
115       KO       2

116       KK  Develope rainfall for phase 2 area
117       KM   6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
118       KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
119       KM  L =  .072  Kb = .064  Adj. Slope =   9.9
120       BA    .043
121       PB   1.188
122       LG    .430    .255   3.500    .515   0.000
123       UC   1.000   0.938
124       UA       0       5      16      30      65      77      84      90      94      97
125       UA     100
126       KO       2

127       KK  Node16
128       KM  confluence g1-g2-g3-g4 and phase 2
129       HC       2
130       KO       2

131       KK  Route water through in Phase 2 channel and close flapgates on culverts
132       RS       1    STOR       0       0
133       SV       0    1.21    3.64    7.29   12.14   18.22   25.50   34.00   43.72   54.65
134       SE     974     976     977     978     979     980     981     982     983     984
135       SQ       0       0       0       0       0       0       0       0       0       0
136       SE     974     976     977     978     979     980     981     982     983     984
137       KO       2
138       ZZ
```

RUNOFF SUMMARY
FLOW IN CUBIC FEET PER SECOND
TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD 6-HOUR	24-HOUR	72-HOUR	BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
HYDROGRAPH AT	DEVELO	19.	4.50	5.	1.	1.	.41		
ROUTED TO	Node17	19.	4.50	5.	1.	1.	.41	77.93	4.50
ROUTED TO	Node10	18.	4.58	5.	1.	1.	.41	6.71	4.58
HYDROGRAPH AT	DEVELO	5.	4.42	2.	0.	0.	.04		
ROUTED TO	Node7	0.	.08	0.	0.	0.	.04		
2 COMBINED AT	Node11	18.	4.58	5.	1.	1.	.45		
ROUTED TO	Node10	18.	4.75	5.	1.	1.	.45	6.69	4.75
HYDROGRAPH AT	DEVELO	1.	4.42	0.	0.	0.	.01		
ROUTED TO	Node8	0.	.08	0.	0.	0.	.01		
2 COMBINED AT	Node13	18.	4.75	5.	1.	1.	.46		
ROUTED TO	Node10	18.	4.83	5.	1.	1.	.46	6.68	4.83
HYDROGRAPH AT	DEVELO	14.	4.50	4.	1.	1.	.25		
ROUTED TO	Node9	5.	5.67	4.	1.	1.	.25	1.25	5.67
2 COMBINED AT	Node15	22.	4.83	8.	2.	2.	.71		
HYDROGRAPH AT	Develo	1.	4.50	0.	0.	0.	.04		

2 COMBINED AT									
	Node16	23.	4.83	8.	2.	2.	.76		
ROUTED TO									
	Route	0.	.08	0.	0.	0.	.76		
								977.24	20.08

*** NORMAL END OF HEC-1 ***

```
*****************************************
*                                       *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
*            SEPTEMBER 1990             *
*             VERSION 4.0               *
*                                       *
*  RUN DATE  10/16/1997  TIME  14:49:02 *
*                                       *
*****************************************
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****************************************
*                                      *
*    U.S. ARMY CORPS OF ENGINEERS      *
*    HYDROLOGIC ENGINEERING CENTER     *
*          609 SECOND STREET           *
*       DAVIS, CALIFORNIA 95616        *
*           (916) 756-1104             *
*                                      *
****************************************
```

```
X     X  XXXXXXX   XXXXX          X
X     X  X        X     X        XX
X     X  X        X              X
XXXXXXX  XXXX     X       XXXXX  X
X     X  X        X              X
X     X  X        X     X        X
X     X  XXXXXXX   XXXXX         XXX
```

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

MODEL #7 - Phase 3 10-Year

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  1           ID   model #7
  2           ID
  3           IT      5                    300
  4           IO      3

  5           KK   A
  6           KM   SUB-BASIN A
  7           KM   6-HOUR RAINFALL, PATTERN NO. 2.13 WAS USED TO FIND TC & R FOR THIS BASIN
  8           KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .970
  9           KM     L = 1.00  Kb = .028  Adj. Slope =   7.0
 10           BA    .253
 11           IN      15
 12           KM   RAINFALL DEPTH OF 2.00 WAS SPACIALLY REDUCED AS SHOWN BY THE PB RECORD
 13           PB   1.940
 14           KM   THE FOLLOWING PC RECORD USED A 6-HOUR STORM WITH A PATTERN No. OF 2.04
 15           PC    .000    .010    .017    .026    .036    .045    .054    .063    .072    .081
 16           PC    .093    .107    .127    .170    .259    .454    .691    .832    .896    .935
 17           PC    .949    .963    .975    .988   1.000
 18           LG    .230    .150   8.500    .059  27.000
 19           UC    .979    .791
 20           UA       0       5      16      30      65      77      84      90      94      97
 21           UA     100
 22           KO       2

 23           KK   RTEA2B
 24           KM   CHANNEL ROUTING TO SUB BASIN B NORMAL DEPTH CHANNEL ROUTING
 25           RS       4    FLOW       0       0
 26           RC    .025    .015    .025    2650   .0006     103
 27           RX     100     150     152     156     158     185     212     216
 28           RY     102     101     100     102     101  101.54     101     103
 29           KO       2

 30           KK   B
 31           KM   SUB-BASIN B
 32           KM   6-HOUR RAINFALL, PATTERN NO. 2.00 WAS USED TO FIND TC & R FOR THIS BASIN
 33           KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .975
 34           KM     L = 1.00  Kb = .050  Adj. Slope =   6.0
 35           BA    .319
 36           LG    .500    .240   6.400    .136    .000
 37           UC   1.408   1.038
 38           UA       0       3       5       8      12      20      43      75      90      96
 39           UA     100
 40           KO       2

 41           KK   AB
 42           KM   COMBINE SUB-BASIN B WITH ROUTED SUB-BASIN A
 43           HC       2
 44           KO       2

 45           KK   RTEAB2C
 46           KM   ROUTE COMBINED HYDROGRAPH TO SUB BASIN C
 47           RS       4    FLOW       0       0
 48           RC    .025    .015    .025    2650   .0006     103
 49           RX     100     150     152     156     158     185     212     216
 50           RY     102     101     100     102     101  101.54     101     103
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  51          KO       2

  52          KK   C
  53          KM   SUB-BASIN C
  54          KM   6-HOUR RAINFALL, PATTERN NO. 2.00 WAS USED TO FIND TC & R FOR THIS BASIN
  55          KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .975
  56          KM     L = 1.00  Kb = .049  Adj. Slope =   10.0
  57          BA    .450
  58          LG    .500    .150   7.600    .080    .000
  59          UC    .979    .570
  60          UA       0       3       5       8      12      20      43      75      90      96
  61          UA     100
  62          KO       2

  63          KK   ABC
  64          KM   COMBINE SUB-BASIN C WITH MAINSTREAM HYDROGRAPH
  65          HC       2
  66          KO       2

  67          KK   RTEABC2D
  68          KM   ROUTE COMBINED HYDROGRAPH TO SUB BASIN D
  69          RS       3    FLOW       0       0
  70          RC    .025    .015    .025    4150   .0011  104.76
  71          RX     100     150     152     156     158     202     246     250
  72          RY     102     101     100     102     101  101.88  102.76  104.76
  73          KO       2

  74          KK   D
  75          KM   SUB-BASIN D
  76          KM   6-HOUR RAINFALL, PATTERN NO. 2.00 WAS USED TO FIND TC & R FOR THIS BASIN
  77          KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .975
  78          KM     L = 1.80  Kb = .048  Adj. Slope =   5.5
  79          BA    .688
  80          LG    .271    .248   3.600    .149   23.00
  81          UC   1.500   1.149
  82          UA       0       3       5       8      12      20      43      75      90      96
  83          UA     100
  84          KO       2

  85          KK   RTED
  86          KM   ROUTE SUB BASIN D THROUGH RESERVOIR TO REMOVE DEVELOPED AREA STORAGE
  87          RS       1    STOR       0       0
  88          SV       0      10      20      30   35.29   37.65      40
  89          SE     100     101     102     103     104   104.5     105
  90          SQ       0       0       0       0       0    1500    3000
  91          SE     100     101     102     103     104   104.5     105
  92          KO       2

  93          KK   ABCD
  94          KM   COMBINE ROUTED SUB-BASIN D WITH MAINSTREAM
  95          HC       2
  96          KO       2
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 97           KK   RTEABCD2F
 98           KM   ROUTE COMBINED HYDROGRAPH TO SUB BASIN F
 99           RS       1    FLOW       0       0
100           RC    .025    .015    .025     850    .001     103
101           RX     100     150     152     156     158     202     246     250
102           RY     102     101     100     102     101  101.88     101     103
103           KO       2

104           KK   E
105           KM   SUB-BASIN E
106           KM   6-HOUR RAINFALL, PATTERN NO. 2.10 WAS USED TO FIND TC & R FOR THIS BASIN
107           KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .971
108           KM     L = 1.32  Kb = .045  Adj. Slope = 6.9
109           BA    .572
110           LG    .300    .205   6.400    .130  20.000
111           UC   1.375   0.902
112           UA       0       5      16      30      65      77      84      90      94      97
113           UA     100
114           KO       2

115           KK   RTEE
116           KM   ROUTE SUB BASIN E THROUGH RESERVOIR TO REMOVE DEVELOPED AREA STORAGE
117           RS       1    STOR       0       0
118           SV       0      10      20      30   31.47   35.74      40
119           SE     100     101     102     103     104   104.5     105
120           SQ       0       0       0       0       0    1500    3000
121           SE     100     101     102     103     104   104.5     105
122           KO       2

123           KK   REME
124           KM   DIVERT FLOW TO AGUA FRIA RIVER
125           KM   FOR MODELING PURPOSES WE NEED DIVERSION FLOW AT THOMAS RD
126           KM   AND 115TH (SOUTH) TO ACT AS MAINSTREAM.
127           DT   DVRTE
128           DI       0   11.59   29.74   66.65  130.38  217.20  266.94  320.62  378.13
129           DQ       0   11.59   25.84   46.59   85.38  139.94  171.07  204.60  240.47
130           KO       2

131           KK   RTEE2F
132           KM   ROUTE HYDROGRAPH TO SUB BASIN F
133           RS       4    FLOW       0       0
134           RC    .025    .015    .025    5300   .0015     103
135           RX     100     150     152     156     158     185     212     216
136           RY     102     101     100     102     101  101.54     101     103
137           KO       2

138           KK   F
139           KM   SUB-BASIN F
140           KM   6-HOUR RAINFALL, PATTERN NO. 2.10 WAS USED TO FIND TC & R FOR THIS BASIN
141           KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .971
142           KM     L =  .99  Kb = .051  Adj. Slope =  6.9
143           BA    .201
144           LG    .500    .150   7.100    .096    .000
145           UC   1.208   1.133
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 146          UA       0       5      16      30      65      77      84      90      94      97
 147          UA     100
 148          KO       2

 149          KK   RTEF
 150          KM   ROUTE SUB BASIN F THROUGH RESERVOIR TO REMOVE DEVELOPED AREA STORAGE
 151          RS       1    STOR       0       0
 152          SV       0       2       4       6    6.83       8
 153          SE     100     101     102     103     104     105
 154          SQ       0       0       0       0       0     250
 155          SE     100     101     102     103     104     105
 156          KO       2

 157          KK   COMBINEALL2F
 158          KM   COMBINE HYDROGRAPHS E & F WITH PREVIOUS
 159          HC       3
 160          KO       2

 161          KK   REMF
 162          KM   DIVERT FLOW TO 115TH STREET SOUTH FROM F
 163          DT   DIVF
 164          DI       0   12.53   21.41   51.01   99.53  166.81  265.04  402.80  582.53
 165          DQ       0       0     .13    2.05    8.89   23.21   61.68  117.16  185.80
 166          KO       2

 167          KK   RTEF2G
 168          KM   ROUTE COMBINED HYDROGRAPH TO SUB BASIN G
 169          RS       2    FLOW       0       0
 170          RC    .025    .015    .025    4200   .0026  103.76
 171          RX     100     150     152     156     158     202     246     248
 172          RY     102     101     100     102     101  101.88  102.76  103.76
 173          KO       2
 174          ZZ
```

RUNOFF SUMMARY
FLOW IN CUBIC FEET PER SECOND
TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD 6-HOUR	24-HOUR	72-HOUR	BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
HYDROGRAPH AT	A	119.	4.58	34.	9.	8.	.25		
ROUTED TO	RTEA2	112.	5.00	34.	9.	8.	.25	102.05	5.00
HYDROGRAPH AT	B	62.	5.17	18.	4.	4.	.32		
2 COMBINED AT	AB	172.	5.08	51.	13.	13.	.57		
ROUTED TO	RTEAB	166.	5.42	51.	13.	13.	.57	102.24	5.42
HYDROGRAPH AT	C	184.	4.83	37.	9.	9.	.45		
2 COMBINED AT	ABC	282.	5.17	88.	22.	22.	1.02		
ROUTED TO	RTEAB	266.	5.50	87.	22.	22.	1.02	102.41	5.50
HYDROGRAPH AT	D	217.	5.25	75.	19.	19.	.69		
ROUTED TO	RTED	34.	7.75	6.	2.	2.	.69	104.01	7.75
2 COMBINED AT	ABCD	266.	5.50	93.	24.	23.	1.71		
ROUTED TO	RTEAB	264.	5.58	93.	24.	23.	1.71	102.29	5.58
HYDROGRAPH AT	E	184.	4.75	58.	15.	14.	.57		
ROUTED TO	RTEE	0.	.08	0.	0.	0.	.57	102.94	11.25
DIVERSION TO	DVRTE	0.	.08	0.	0.	0.	.57		

HYDROGRAPH AT								
	REME	0.	.08	0.	0.	0.	.57	
ROUTED TO								
	RTEE2	0.	.08	0.	0.	0.	.57	
							100.00	.00
HYDROGRAPH AT								
	F	49.	4.75	16.	4.	4.	.20	
ROUTED TO								
	RTEF	9.	6.92	2.	0.	0.	.20	
							104.04	6.92
3 COMBINED AT								
	COMBI	264.	5.58	95.	24.	24.	2.48	
DIVERSION TO								
	DIVF	61.	5.58	13.	3.	3.	2.48	
HYDROGRAPH AT								
	REMF	203.	5.58	82.	21.	20.	2.48	
ROUTED TO								
	RTEF2	193.	5.92	81.	21.	20.	2.48	
							102.06	5.92

*** NORMAL END OF HEC-1 ***

```
*****************************************
*                                       *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
*          SEPTEMBER 1990               *
*           VERSION 4.0                 *
*                                       *
* RUN DATE  10/16/1997  TIME  15:28:45  *
*                                       *
*****************************************
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*****************************************
*                                       *
*   U.S. ARMY CORPS OF ENGINEERS        *
*   HYDROLOGIC ENGINEERING CENTER       *
*         609 SECOND STREET             *
*      DAVIS, CALIFORNIA 95616          *
*          (916) 756-1104               *
*                                       *
*****************************************
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X     X  XXXXXXX   XXXXX          X
X     X  X        X     X        XX
X     X  X        X              X
XXXXXXX  XXXX     X        XXXXX  X
X     X  X        X              X
X     X  X        X     X        X
X     X  XXXXXXX   XXXXX         XXX
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THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

MODEL #8 - Phase 3 100-Year

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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  1           ID   AVONDALE WETLANDS STUDY PHASE 1 STEVE LEATHERS 11/5/96 model # 8
  2           ID
  3           IT       5 18MAR97    1210    1000
  4           IO       1

  5           KK  RES29S
  6           BA   74.02
  7           ZR    =QI  A=MV100-6 B=RES29S C=FLOW D=18MAR1997 E=5MIN
  8           KO       2

  9           KK   DEVELOPE RAINFALL FOR SUBBASIN A
 10           KM   SUB-BASIN A
 11           KM   6-HOUR RAINFALL, PATTERN NO. 2.13 WAS USED TO FIND TC & R FOR THIS BASIN
 12           KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .970
 13           KM     L = 1.00  Kb = .028  Adj. Slope =   7.0
 14           BA    .253
 15           IN      15
 16           KM   RAINFALL DEPTH OF 3.00 WAS SPACIALLY REDUCED AS SHOWN BY THE PB RECORD
 17           PB   2.911
 18           KM   THE FOLLOWING PC RECORD USED A 6-HOUR STORM WITH A PATTERN No. OF 2.13
 19           PC    .000    .010    .017    .026    .036    .045    .054    .063    .072    .081
 20           PC    .093    .107    .127    .170    .259    .454    .691    .832    .896    .935
 21           PC    .949    .963    .975    .988   1.000
 22           LG    .230    .150   8.500    .059  27.000
 23           UC    .750    .588
 24           UA       0       5      16      30      65      77      84      90      94      97
 25           UA     100
 26           KO       2

 27           KK   COMBINE IMPORTED HYDROGRAPH WITH SUB-BASIN A
 28           KM
 29           HC       2
 30           KO       2

 31           KK   ROUTE COMBINED TO B
 32           KM   CHANNEL ROUTING TO SUB BASIN B NORMAL DEPTH CHANNEL ROUTING
 33           RS       2    FLOW       0       0
 34           RC    .025    .015    .025    2650   .0006     104
 35           RX     100     150     152     156     158     185     212     216
 36           RY     104     101     100     102     101  101.54     101     104
 37           KO       2

 38           KK  RES32E
 39           ZR    =QI  A=MV100-6 B=RES32E C=FLOW D=18MAR1997 E=5MIN
 40           KO       2

 41           KK   B
 42           KM   SUB-BASIN B
 43           KM   6-HOUR RAINFALL, PATTERN NO. 2.00 WAS USED TO FIND TC & R FOR THIS BASIN
 44           KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .975
 45           KM     L = 1.00  Kb = .050  Adj. Slope =   6.0
 46           BA    .319
 47           LG    .500    .240   6.400    .136    .000
 48           UC   1.408   1.038
```

49	UA	0	3	5	8	12	20	43	75	90	96

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 50           UA     100
 51           KO       2

 52           KK  RIDB
 53           KM  COMBINE B WITH OVERFLOW FROM RID
 54           HC       2
 55           KO       2

 56           KK   AB
 57           KM   COMBINE SUB-BASIN B WITH ROUTED SUB-BASIN A
 58           HC       2
 59           KO       2

 60           KK   RTEAB2C
 61           KM   ROUTE COMBINED HYDROGRAPH TO SUB BASIN C
 62           RS       2    FLOW       0       0
 63           RC    .025    .015    .025    2650   .0006     104
 64           RX     100     150     152     156     158     185     212     216
 65           RY     104     101     100     102     101  101.54     101     104
 66           KO       2

 67           KK   C
 68           KM   SUB-BASIN C
 69           KM   6-HOUR RAINFALL, PATTERN NO. 2.00 WAS USED TO FIND TC & R FOR THIS BASIN
 70           KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .975
 71           KM     L = 1.00  Kb = .049  Adj. Slope =   10.0
 72           BA    .450
 73           LG    .500    .150   7.600    .080    .000
 74           UC    .979    .570
 75           UA       0       3       5       8      12      20      43      75      90      96
 76           UA     100
 77           KO       2

 78           KK   ABC
 79           KM   COMBINE SUB-BASIN C WITH MAINSTREAM HYDROGRAPH
 80           HC       2
 81           KO       2

 82           KK   RTEABC2D
 83           KM   ROUTE COMBINED HYDROGRAPH TO SUB BASIN D
 84           RS       3    FLOW       0       0
 85           RC    .025    .015    .025    4150   .0011  104.76
 86           RX     100     150     152     156     158     202     246     250
 87           RY     104     101     100     102     101  101.88  102.76  104.76
 88           KO       2

 89           KK   D
 90           KM   SUB-BASIN D
 91           KM   6-HOUR RAINFALL, PATTERN NO. 2.00 WAS USED TO FIND TC & R FOR THIS BASIN
 92           KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .975
 93           KM     L = 1.80  Kb = .048  Adj. Slope =   5.5
 94           BA    .688
 95           LG    .271    .248   3.600    .149   23.00
 96           UC   1.500   1.149
```

97	UA	0	3	5	8	12	20	43	75	90	96

```
LINE        ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 98         UA     100
 99         KO       2

100         KK   RTED
101         KM   ROUTE SUB BASIN D THROUGH RESERVOIR TO REMOVE DEVELOPED AREA STORAGE
102         RS       1    STOR       0       0
103         SV       0      10      20      30   35.29   37.65      40
104         SE     100     101     102     103     104   104.5     105
105         SQ       0       0       0       0       0    1500    3000
106         SE     100     101     102     103     104   104.5     105
107         KO       2

108         KK   ABCD
109         KM   COMBINE ROUTED SUB-BASIN D WITH MAINSTREAM
110         HC       2
111         KO       2

112         KK   RTEABCD2F
113         KM   ROUTE COMBINED HYDROGRAPH TO SUB BASIN F
114         RS       1    FLOW       0       0
115         RC    .025    .015    .025     850    .001     105
116         RX      50     150     152     156     158     202     246     250
117         RY     105     101     100     102     101  101.88     101     105
118         KO       2

119         KK   E
120         KM   SUB-BASIN E
121         KM   6-HOUR RAINFALL, PATTERN NO. 2.10 WAS USED TO FIND TC & R FOR THIS BASIN
122         KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .971
123         KM     L = 1.32  Kb = .045  Adj. Slope =  6.9
124         BA    .572
125         LG    .300    .210   6.400    .130  20.000
126         UC   1.375   0.902
127         UA       0       5      16      30      65      77      84      90      94      97
128         UA     100
129         KO       2

130         KK   RTEE
131         KM   ROUTE SUB BASIN E THROUGH RESERVOIR TO REMOVE DEVELOPED AREA STORAGE
132         RS       1    STOR       0       0
133         SV       0      10      20      30   31.47   35.65      40
134         SE     100     101     102     103     104   104.5     105
135         SQ       0       0       0       0       0    1500    3000
136         SE     100     101     102     103     104   104.5     105
137         KO       2

138         KK   REME
139         KM   DIVERT FLOW TO AGUA FRIA RIVER
140         KM   FOR MODELING PURPOSES WE NEED DIVERSION FLOW AT THOMAS RD
141         KM   AND 115TH (SOUTH) TO ACT AS MAINSTREAM.
142         DT   DVRTE
143         DI       0   11.59   29.74   66.65  130.38  217.20  266.94  320.62  378.13
144         DQ       0   11.59   25.84   46.59   85.38  139.94  171.07  204.60  240.47
145         KO       2
```

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

146           KK   RTEE2F
147           KM   ROUTE HYDROGRAPH TO SUB BASIN F
148           RS       4    FLOW       0       0
149           RC    .025    .015    .025    5300   .0015     103
150           RX     100     150     152     156     158     185     212     216
151           RY     102     101     100     102     101  101.54     101     103
152           KO       2

153           KK   F
154           KM   SUB-BASIN F
155           KM   6-HOUR RAINFALL, PATTERN NO. 2.10 WAS USED TO FIND TC & R FOR THIS BASIN
156           KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .971
157           KM     L =  .99  Kb = .051  Adj. Slope =  6.9
158           BA    .201
159           LG    .500    .150   7.100    .096    .000
160           UC   1.208   1.133
161           UA       0       5      16      30      65      77      84      90      94      97
162           UA     100
163           KO       2

164           KK   RTEF
165           KM   ROUTE SUB BASIN F THROUGH RESERVOIR TO REMOVE DEVELOPED AREA STORAGE
166           RS       1    STOR       0       0
167           SV       0       2       4       6    6.83       8
168           SE     100     101     102     103     104     105
169           SQ       0       0       0       0       0     250
170           SE     100     101     102     103     104     105
171           KO       2

172           KK   COMBINEALL2F
173           KM   COMBINE HYDROGRAPHS E & F WITH PREVIOUS
174           HC       3
175           KO       2

176           KK   REMF
177           KM   DIVERT FLOW TO 115TH STREET SOUTH FROM F
178           DT   DIVF
179           DI       0   12.53   21.41   51.01   99.53  166.81  265.04  402.80  582.53
180           DQ       0       0     .13    2.05    8.89   23.21   61.68  117.16  185.80
181           KO       2

182           KK   RTEF2G
183           KM   ROUTE COMBINED HYDROGRAPH TO SUB BASIN G
184           RS       2    FLOW       0       0
185           RC    .025    .015    .025    4200   .0026  103.76
186           RX     100     150     152     156     158     202     246     248
187           RY     103     101     100     102     101  101.88  102.76  103.76
188           KO       2
189           ZZ
```

RUNOFF SUMMARY
FLOW IN CUBIC FEET PER SECOND
TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD 6-HOUR	24-HOUR	72-HOUR	BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
HYDROGRAPH AT	RES29S	555.	6.42	223.	62.	59.	74.02		
HYDROGRAPH AT	DEVEL	234.	4.42	58.	15.	14.	.25		
2 COMBINED AT	COMBI	574.	6.42	257.	76.	74.	74.27		
ROUTED TO	ROUTE	564.	6.58	255.	76.	74.	74.27	103.51	6.58
HYDROGRAPH AT	RES32E	188.	5.25	64.	16.	15.	.25		
HYDROGRAPH AT	B	150.	5.17	45.	11.	11.	.32		
2 COMBINED AT	RIDB	336.	5.25	109.	27.	26.	.57		
2 COMBINED AT	AB	713.	6.50	364.	104.	100.	74.84		
ROUTED TO	RTEAB	701.	6.67	362.	104.	100.	74.84	103.80	6.67
HYDROGRAPH AT	C	360.	4.75	78.	20.	19.	.45		
2 COMBINED AT	ABC	775.	5.08	435.	123.	119.	75.29		
ROUTED TO	RTEAB	753.	5.33	432.	123.	119.	75.29	103.42	5.33
HYDROGRAPH AT	D	388.	5.25	136.	35.	34.	.69		
ROUTED TO	RTED	334.	5.75	70.	17.	17.	.69	104.11	5.75
2 COMBINED AT	ABCD	962.	5.75	501.	141.	135.	75.98		

ROUTED TO									
	RTEAB	940.	5.75	501.	141.	135.	75.98		
								103.43	5.75
HYDROGRAPH AT									
	E	340.	4.75	108.	28.	27.	.57		
ROUTED TO									
	RTEE	300.	5.33	47.	12.	11.	.57		
								104.10	5.33
DIVERSION TO									
	DVRTE	192.	5.33	33.	8.	8.	.57		
HYDROGRAPH AT									
	REME	108.	5.33	15.	4.	4.	.57		
ROUTED TO									
	RTEE2	51.	6.42	15.	4.	4.	.57		
								101.62	6.42
HYDROGRAPH AT									
	F	101.	4.75	34.	9.	8.	.20		
ROUTED TO									
	RTEF	89.	5.17	20.	5.	5.	.20		
								104.36	5.17
3 COMBINED AT									
	COMBI	1006.	5.75	536.	149.	144.	76.76		
DIVERSION TO									
	DIVF	347.	5.75	167.	43.	41.	76.76		
HYDROGRAPH AT									
	REMF	658.	5.75	368.	107.	103.	76.76		
ROUTED TO									
	RTEF2	618.	6.00	366.	107.	103.	76.76		
								102.81	6.00

*** NORMAL END OF HEC-1 ***

```
-----DSS---ZCLOSE Unit:  71,   File: C:®HEC1®REVAV®MODEL_8.DSS
          Pointer Utilization:   .25
          Number of Records:      6
          File Size:     19.5  Kbytes
          Percent Inactive:   .00
```

Appendix 3

DETAILED HEC-1 OUTPUT CALCULATIONS

```
****************************************
*                                      *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)  *
*            SEPTEMBER 1990            *
*             VERSION 4.0              *
*                                      *
*  RUN DATE  10/16/1997  TIME  09:51:38 *
*                                      *
****************************************
```

```
****************************************
*                                      *
*    U.S. ARMY CORPS OF ENGINEERS      *
*    HYDROLOGIC ENGINEERING CENTER     *
*          609 SECOND STREET           *
*       DAVIS, CALIFORNIA 95616        *
*           (916) 756-1104             *
*                                      *
****************************************
```

```
X     X  XXXXXXX  XXXXX          X
X     X  X       X     X        XX
X     X  X       X              X
XXXXXXX  XXXX    X       XXXXX  X
X     X  X       X              X
X     X  X       X     X        X
X     X  XXXXXXX  XXXXX       XXX
```

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

MODEL #1 - Phase 1 Routed Through Channel & Phase 2 10-Year

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  1           ID       Model #1
  2           IT       5                    300
  3           IO       2

  4           KK  DEVELOP RAINFALL FOR BASIN G1
  5           KM   6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
  6           KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
  7           KM  L = 1.17  Kb = .050  Adj. Slope =   21.3
  8           BA    .413
  9           PB   1.989
 10           IN      15
 11           PC    .000    .008    .016    .025    .033    .041    .050    .058    .066    .074
 12           PC    .087    .099    .119    .138    .216    .377    .834    .911    .931    .950
 13           PC    .962    .973    .983    .991   1.000
 14           LG    .430    .255   3.500    .515   7.000
 15           UC   1.354    .985
 16           UA       0       5      16      30      65      77      84      90      94      97
 17           UA     100
 18           KO       2

 19           KK  Node17
 20           KM  basin routing through transfer pipe culverts
 21           RS       1    STOR
 22           SV       0     .02     .11      .2    1.79    3.38    7.57   13.81
 23           SE   77.82      78      79      80      81      82      83      84
 24           SL   77.82   15.70      .6      .5
 25           SS   83.80      15       3     1.5
 26           KO       2

 27           KK  Node10
 28           KM  Route water from culverts to middle of subdivision
 29           RS       1    STOR
 30           RC    .035    .035    .035     650   .0022      15
 31           RX       0      20     120   136.6   146.6   162.2   262.2   282.2
 32           RY      15      11      10    5.85    5.85      10      11      15
 33           KO       2

 34           KK  DEVELOPE RAINFALL FOR SUBBASIN G2
 35           KM   6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
 36           KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
 37           KM  L =  .41  Kb = .064  Adj. Slope =   48.9
 38           BA    .040
 39           PB   1.989
 40           LG    .430    .255   3.500   0.515  30.000
 41           UC    .458    .477
 42           UA       0       5      16      30      65      77      84      90      94      97
 43           UA     100
 44           KO       2

 45           KK  Node7
 46           KM  Route flow through basin to remove developed area storage
 47           RS       1    STOR       0
 48           SV       0    2.13    2.15    2.16    2.17    2.18    2.19    2.20    2.25     2.5
 49           SV    2.75
```

50	SQ	0	0	20	30	40	50	60	70	100	150

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  51          SQ     200
  52          KO       2

  53          KK  Node11
  54          KM  conflunce g1 and g2
  55          HC       2
  56          KO       2

  57          KK  Node10
  58          KM  Route water from culverts to middle of subdivision
  59          RS       1    STOR
  60          RC    .035    .035    .035     650   .0022      15
  61          RX       0      20     120   136.6   146.6   162.2   262.2   282.2
  62          RY      15      11      10    5.85    5.85      10      11      15
  63          KO       2

  64          KK  DEVELOPE RAINFALL FOR G3
  65          KM   6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
  66          KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
  67          KM  L =  .30  Kb = .072  Adj. Slope =   60.9
  68          BA    .010
  69          PB   1.989
  70          LG    .430    .255   3.500    .515  30.000
  71          UC    .296    .498
  72          UA       0       5      16      30      65      77      84      90      94      97
  73          UA     100
  74          KO       2

  75          KK  Node8
  76          KM  Route area through subdivision to remove retention storage
  77          RS       1    STOR
  78          SV       0     .58     .60     .61     .62     .63     .64
  79          SQ       0       0      10      20      30      40      50
  80          KO       2

  81          KK  Node13
  82          KM  confluence g1-g2 with g3
  83          KO                                      22
  84          HC       2
  85          KO       2

  86          KK  Node10
  87          KM  Route water from  middle of subdivision to old mcdowell
  88          RS       1    STOR
  89          RC    .035    .035    .035     650   .0022      15
  90          RX       0      20     120   136.6   146.6   162.2   262.2   282.2
  91          RY      15      11      10    5.85    5.85      10      11      15
  92          KO       2

  93          KK  DEVELOP RAINFALL FOR SUBBASIN G4
  94          KM   6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
  95          KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
  96          KM  L =  .98  Kb = .064  Adj. Slope =   26.3
  97          BA    .252
```

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 99           LG    .430    .255   3.500    .515  10.470
100           UC    .742    .576
101           UA       0       5      16      30      65      77      84      90      94      97
102           UA     100
103           KO       2

104           KK  Node9
105           KM  Route water through detention basin to remove subdivision storage
106           RS       1    STOR       0
107           SV       0    7.58    7.60    7.70    7.80
108           SE       0      10      11      12      13
109           SL       0     1.0     0.6     0.5
110           SS      10      50     2.7     1.5
111           KO       2

112           KK  Node15
113           KM  confluence g1-g2-g3 with g4
114           HC       2
115           KO       2

116           KK  Develope rainfall for phase 2 area
117           KM   6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
118           KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
119           KM  L =  .072  Kb = .064  Adj. Slope =   9.9
120           BA    .043
121           PB   1.989
122           LG    .430    .255   3.500   0.515  0.000
123           UC   1.087   1.030
124           UA       0       5      16      30      65      77      84      90      94      97
125           UA     100
126           KO       2

127           KK  Confluence g1-g4 with phase 2
128           HC       2
129           KO       2

130           KK  Route water through existing topography in Phase 2 and out culverts
131           RS       1    STOR       0       0
132           SV    6.12   12.21   20.88
133           SE     977     978     979
134           SQ       0   14.90   41.02
135           SE     977     978     979
136           KO       2
137           ZZ
```

```
****************************************
*                                      *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)  *
*            SEPTEMBER 1990            *
*             VERSION 4.0              *
*                                      *
*  RUN DATE  06/09/1998  TIME  16:02:46 *
*                                      *
****************************************
```

```
****************************************
*                                      *
*    U.S. ARMY CORPS OF ENGINEERS      *
*    HYDROLOGIC ENGINEERING CENTER     *
*          609 SECOND STREET           *
*       DAVIS, CALIFORNIA 95616        *
*          (916) 756-1104              *
*                                      *
****************************************
```

Model #1

```
  3 IO        OUTPUT CONTROL VARIABLES
                    IPRNT          2  PRINT CONTROL
                    IPLOT          0  PLOT CONTROL
                    QSCAL         0.  HYDROGRAPH PLOT SCALE

   IT         HYDROGRAPH TIME DATA
                     NMIN          5  MINUTES IN COMPUTATION INTERVAL
                    IDATE      1   0  STARTING DATE
                    ITIME       0000  STARTING TIME
                       NQ        300  NUMBER OF HYDROGRAPH ORDINATES
                   NDDATE      2   0  ENDING DATE
                   NDTIME       0055  ENDING TIME
                    ICENT         19  CENTURY MARK

              COMPUTATION INTERVAL     .08 HOURS
                   TOTAL TIME BASE   24.92 HOURS

        ENGLISH UNITS
            DRAINAGE AREA          SQUARE MILES
            PRECIPITATION DEPTH    INCHES
            LENGTH, ELEVATION      FEET
            FLOW                   CUBIC FEET PER SECOND
            STORAGE VOLUME         ACRE-FEET
            SURFACE AREA           ACRES
            TEMPERATURE            DEGREES FAHRENHEIT
```

*** ***

```
          **************
          *            *
  4 KK    *   DEVELO   *     P RAINFALL FOR BASIN G1
          *            *
          **************
                        6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
                        THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
                       L = 1.17  Kb = .050  Adj. Slope =   21.3

 10 IN        TIME DATA FOR INPUT TIME SERIES
                    JXMIN         15  TIME INTERVAL IN MINUTES
```

```
                JXDATE      1    0  STARTING DATE
                JXTIME           0  STARTING TIME

18 KO         OUTPUT CONTROL VARIABLES
                IPRNT           2  PRINT CONTROL
                IPLOT           0  PLOT CONTROL
                QSCAL          0.  HYDROGRAPH PLOT SCALE

            SUBBASIN RUNOFF DATA

 8 BA         SUBBASIN CHARACTERISTICS
                TAREA         .41  SUBBASIN AREA

              PRECIPITATION DATA

 9 PB           STORM        1.99  BASIN TOTAL PRECIPITATION

11 PI           INCREMENTAL PRECIPITATION PATTERN
                .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                .00      .00      .00      .01      .01      .01      .01      .01      .01      .03
                .03      .03      .05      .05      .05      .15      .15      .15      .03      .03
                .03      .01      .01      .01      .01      .01      .01      .00      .00      .00
                .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                .00      .00

14 LG         GREEN AND AMPT LOSS RATE
                STRTL         .43  STARTING LOSS
                  DTH         .25  MOISTURE DEFICIT
                 PSIF        3.50  WETTING FRONT SUCTION
                XKSAT         .51  HYDRAULIC CONDUCTIVITY
                RTIMP        7.00  PERCENT IMPERVIOUS AREA

15 UC         CLARK UNITGRAPH
                   TC        1.35  TIME OF CONCENTRATION
                    R         .99  STORAGE COEFFICIENT

16 UA         ACCUMULATED-AREA VS. TIME,  11 ORDINATES
                  .0       5.0      16.0      30.0      65.0      77.0      84.0      90.0      94.0      97.0
               100.0

                                          ***

                                   UNIT HYDROGRAPH PARAMETERS
                             CLARK   TC=  1.35 HR,       R=   .99 HR
                            SNYDER   TP=   .74 HR,      CP=   .44

                                   UNIT HYDROGRAPH
                              70 END-OF-PERIOD ORDINATES
          4.       13.       27.       44.       64.      100.      139.      156.      159.      158.
        155.      151.      146.      140.      133.      127.      120.      111.      102.       93.
         86.       79.       72.       67.       61.       56.       52.       47.       44.       40.
         37.       34.       31.       29.       26.       24.       22.       20.       19.       17.
         16.       14.       13.       12.       11.       10.        9.        9.        8.        7.
          7.        6.        6.        5.        5.        4.        4.        4.        3.        3.
          3.        3.        2.        2.        2.        2.        2.        2.        1.        1.
```

HYDROGRAPH AT STATION DEVELO

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1		0000	1	.00	.00	.00	0.	1		1230	151	.00	.00	.00	0.
1		0005	2	.01	.00	.00	0.	1		1235	152	.00	.00	.00	0.
1		0010	3	.01	.00	.00	0.	1		1240	153	.00	.00	.00	0.
1		0015	4	.01	.00	.00	0.	1		1245	154	.00	.00	.00	0.
1		0020	5	.01	.00	.00	0.	1		1250	155	.00	.00	.00	0.
1		0025	6	.01	.00	.00	0.	1		1255	156	.00	.00	.00	0.
1		0030	7	.01	.00	.00	0.	1		1300	157	.00	.00	.00	0.
1		0035	8	.01	.01	.00	0.	1		1305	158	.00	.00	.00	0.
1		0040	9	.01	.01	.00	0.	1		1310	159	.00	.00	.00	0.
1		0045	10	.01	.01	.00	0.	1		1315	160	.00	.00	.00	0.
1		0050	11	.01	.00	.00	0.	1		1320	161	.00	.00	.00	0.
1		0055	12	.01	.00	.00	0.	1		1325	162	.00	.00	.00	0.
1		0100	13	.01	.00	.00	0.	1		1330	163	.00	.00	.00	0.
1		0105	14	.01	.00	.00	1.	1		1335	164	.00	.00	.00	0.
1		0110	15	.01	.00	.00	1.	1		1340	165	.00	.00	.00	0.
1		0115	16	.01	.00	.00	1.	1		1345	166	.00	.00	.00	0.
1		0120	17	.01	.01	.00	1.	1		1350	167	.00	.00	.00	0.
1		0125	18	.01	.01	.00	1.	1		1355	168	.00	.00	.00	0.
1		0130	19	.01	.01	.00	1.	1		1400	169	.00	.00	.00	0.
1		0135	20	.01	.00	.00	1.	1		1405	170	.00	.00	.00	0.
1		0140	21	.01	.00	.00	1.	1		1410	171	.00	.00	.00	0.
1		0145	22	.01	.00	.00	1.	1		1415	172	.00	.00	.00	0.
1		0150	23	.01	.00	.00	1.	1		1420	173	.00	.00	.00	0.
1		0155	24	.01	.00	.00	1.	1		1425	174	.00	.00	.00	0.
1		0200	25	.01	.00	.00	1.	1		1430	175	.00	.00	.00	0.
1		0205	26	.01	.00	.00	1.	1		1435	176	.00	.00	.00	0.
1		0210	27	.01	.00	.00	1.	1		1440	177	.00	.00	.00	0.
1		0215	28	.01	.00	.00	1.	1		1445	178	.00	.00	.00	0.
1		0220	29	.01	.01	.00	1.	1		1450	179	.00	.00	.00	0.
1		0225	30	.01	.01	.00	1.	1		1455	180	.00	.00	.00	0.
1		0230	31	.01	.01	.00	1.	1		1500	181	.00	.00	.00	0.
1		0235	32	.01	.01	.00	1.	1		1505	182	.00	.00	.00	0.
1		0240	33	.01	.01	.00	1.	1		1510	183	.00	.00	.00	0.
1		0245	34	.01	.01	.00	1.	1		1515	184	.00	.00	.00	0.
1		0250	35	.01	.01	.00	1.	1		1520	185	.00	.00	.00	0.
1		0255	36	.01	.01	.00	1.	1		1525	186	.00	.00	.00	0.
1		0300	37	.01	.01	.00	1.	1		1530	187	.00	.00	.00	0.
1		0305	38	.01	.01	.00	1.	1		1535	188	.00	.00	.00	0.
1		0310	39	.01	.01	.00	1.	1		1540	189	.00	.00	.00	0.
1		0315	40	.01	.01	.00	1.	1		1545	190	.00	.00	.00	0.
1		0320	41	.05	.05	.00	2.	1		1550	191	.00	.00	.00	0.
1		0325	42	.05	.05	.00	2.	1		1555	192	.00	.00	.00	0.
1		0330	43	.05	.05	.00	2.	1		1600	193	.00	.00	.00	0.
1		0335	44	.11	.10	.01	2.	1		1605	194	.00	.00	.00	0.
1		0340	45	.11	.10	.01	2.	1		1610	195	.00	.00	.00	0.
1		0345	46	.11	.10	.01	3.	1		1615	196	.00	.00	.00	0.
1		0350	47	.30	.13	.17	4.	1		1620	197	.00	.00	.00	0.
1		0355	48	.30	.11	.19	7.	1		1625	198	.00	.00	.00	0.
1		0400	49	.30	.10	.21	13.	1		1630	199	.00	.00	.00	0.
1		0405	50	.05	.05	.00	21.	1		1635	200	.00	.00	.00	0.

1	0410	51	.05	.05	.00	31.	*	1	1640	201	.00	.00	.00	0.
1	0415	52	.05	.05	.00	45.	*	1	1645	202	.00	.00	.00	0.
1	0420	53	.01	.01	.00	63.	*	1	1650	203	.00	.00	.00	0.
1	0425	54	.01	.01	.00	81.	*	1	1655	204	.00	.00	.00	0.
1	0430	55	.01	.01	.00	93.	*	1	1700	205	.00	.00	.00	0.
1	0435	56	.01	.01	.00	97.	*	1	1705	206	.00	.00	.00	0.
1	0440	57	.01	.01	.00	97.	*	1	1710	207	.00	.00	.00	0.
1	0445	58	.01	.01	.00	96.	*	1	1715	208	.00	.00	.00	0.
1	0450	59	.01	.01	.00	93.	*	1	1720	209	.00	.00	.00	0.
1	0455	60	.01	.01	.00	90.	*	1	1725	210	.00	.00	.00	0.
1	0500	61	.01	.01	.00	87.	*	1	1730	211	.00	.00	.00	0.
1	0505	62	.01	.01	.00	83.	*	1	1735	212	.00	.00	.00	0.
1	0510	63	.01	.01	.00	79.	*	1	1740	213	.00	.00	.00	0.
1	0515	64	.01	.01	.00	74.	*	1	1745	214	.00	.00	.00	0.
1	0520	65	.01	.01	.00	69.	*	1	1750	215	.00	.00	.00	0.
1	0525	66	.01	.01	.00	64.	*	1	1755	216	.00	.00	.00	0.
1	0530	67	.01	.01	.00	59.	*	1	1800	217	.00	.00	.00	0.
1	0535	68	.01	.00	.00	54.	*	1	1805	218	.00	.00	.00	0.
1	0540	69	.01	.00	.00	50.	*	1	1810	219	.00	.00	.00	0.
1	0545	70	.01	.00	.00	46.	*	1	1815	220	.00	.00	.00	0.
1	0550	71	.01	.01	.00	42.	*	1	1820	221	.00	.00	.00	0.
1	0555	72	.01	.01	.00	39.	*	1	1825	222	.00	.00	.00	0.
1	0600	73	.01	.01	.00	36.	*	1	1830	223	.00	.00	.00	0.
1	0605	74	.00	.00	.00	33.	*	1	1835	224	.00	.00	.00	0.
1	0610	75	.00	.00	.00	31.	*	1	1840	225	.00	.00	.00	0.
1	0615	76	.00	.00	.00	28.	*	1	1845	226	.00	.00	.00	0.
1	0620	77	.00	.00	.00	26.	*	1	1850	227	.00	.00	.00	0.
1	0625	78	.00	.00	.00	24.	*	1	1855	228	.00	.00	.00	0.
1	0630	79	.00	.00	.00	22.	*	1	1900	229	.00	.00	.00	0.
1	0635	80	.00	.00	.00	20.	*	1	1905	230	.00	.00	.00	0.
1	0640	81	.00	.00	.00	19.	*	1	1910	231	.00	.00	.00	0.
1	0645	82	.00	.00	.00	17.	*	1	1915	232	.00	.00	.00	0.
1	0650	83	.00	.00	.00	16.	*	1	1920	233	.00	.00	.00	0.
1	0655	84	.00	.00	.00	15.	*	1	1925	234	.00	.00	.00	0.
1	0700	85	.00	.00	.00	13.	*	1	1930	235	.00	.00	.00	0.
1	0705	86	.00	.00	.00	12.	*	1	1935	236	.00	.00	.00	0.
1	0710	87	.00	.00	.00	11.	*	1	1940	237	.00	.00	.00	0.
1	0715	88	.00	.00	.00	10.	*	1	1945	238	.00	.00	.00	0.
1	0720	89	.00	.00	.00	10.	*	1	1950	239	.00	.00	.00	0.
1	0725	90	.00	.00	.00	9.	*	1	1955	240	.00	.00	.00	0.
1	0730	91	.00	.00	.00	8.	*	1	2000	241	.00	.00	.00	0.
1	0735	92	.00	.00	.00	7.	*	1	2005	242	.00	.00	.00	0.
1	0740	93	.00	.00	.00	7.	*	1	2010	243	.00	.00	.00	0.
1	0745	94	.00	.00	.00	6.	*	1	2015	244	.00	.00	.00	0.
1	0750	95	.00	.00	.00	6.	*	1	2020	245	.00	.00	.00	0.
1	0755	96	.00	.00	.00	5.	*	1	2025	246	.00	.00	.00	0.
1	0800	97	.00	.00	.00	5.	*	1	2030	247	.00	.00	.00	0.
1	0805	98	.00	.00	.00	4.	*	1	2035	248	.00	.00	.00	0.
1	0810	99	.00	.00	.00	4.	*	1	2040	249	.00	.00	.00	0.
1	0815	100	.00	.00	.00	4.	*	1	2045	250	.00	.00	.00	0.
1	0820	101	.00	.00	.00	3.	*	1	2050	251	.00	.00	.00	0.
1	0825	102	.00	.00	.00	3.	*	1	2055	252	.00	.00	.00	0.
1	0830	103	.00	.00	.00	3.	*	1	2100	253	.00	.00	.00	0.
1	0835	104	.00	.00	.00	3.	*	1	2105	254	.00	.00	.00	0.
1	0840	105	.00	.00	.00	2.	*	1	2110	255	.00	.00	.00	0.
1	0845	106	.00	.00	.00	2.	*	1	2115	256	.00	.00	.00	0.
1	0850	107	.00	.00	.00	2.	*	1	2120	257	.00	.00	.00	0.
1	0855	108	.00	.00	.00	2.	*	1	2125	258	.00	.00	.00	0.

1	0900	109	.00	.00	.00	2.	*	1	2130	259	.00	.00	.00	0.
1	0905	110	.00	.00	.00	2.	*	1	2135	260	.00	.00	.00	0.
1	0910	111	.00	.00	.00	1.	*	1	2140	261	.00	.00	.00	0.
1	0915	112	.00	.00	.00	1.	*	1	2145	262	.00	.00	.00	0.
1	0920	113	.00	.00	.00	1.	*	1	2150	263	.00	.00	.00	0.
1	0925	114	.00	.00	.00	1.	*	1	2155	264	.00	.00	.00	0.
1	0930	115	.00	.00	.00	1.	*	1	2200	265	.00	.00	.00	0.
1	0935	116	.00	.00	.00	1.	*	1	2205	266	.00	.00	.00	0.
1	0940	117	.00	.00	.00	1.	*	1	2210	267	.00	.00	.00	0.
1	0945	118	.00	.00	.00	0.	*	1	2215	268	.00	.00	.00	0.
1	0950	119	.00	.00	.00	0.	*	1	2220	269	.00	.00	.00	0.
1	0955	120	.00	.00	.00	0.	*	1	2225	270	.00	.00	.00	0.
1	1000	121	.00	.00	.00	0.	*	1	2230	271	.00	.00	.00	0.
1	1005	122	.00	.00	.00	0.	*	1	2235	272	.00	.00	.00	0.
1	1010	123	.00	.00	.00	0.	*	1	2240	273	.00	.00	.00	0.
1	1015	124	.00	.00	.00	0.	*	1	2245	274	.00	.00	.00	0.
1	1020	125	.00	.00	.00	0.	*	1	2250	275	.00	.00	.00	0.
1	1025	126	.00	.00	.00	0.	*	1	2255	276	.00	.00	.00	0.
1	1030	127	.00	.00	.00	0.	*	1	2300	277	.00	.00	.00	0.
1	1035	128	.00	.00	.00	0.	*	1	2305	278	.00	.00	.00	0.
1	1040	129	.00	.00	.00	0.	*	1	2310	279	.00	.00	.00	0.
1	1045	130	.00	.00	.00	0.	*	1	2315	280	.00	.00	.00	0.
1	1050	131	.00	.00	.00	0.	*	1	2320	281	.00	.00	.00	0.
1	1055	132	.00	.00	.00	0.	*	1	2325	282	.00	.00	.00	0.
1	1100	133	.00	.00	.00	0.	*	1	2330	283	.00	.00	.00	0.
1	1105	134	.00	.00	.00	0.	*	1	2335	284	.00	.00	.00	0.
1	1110	135	.00	.00	.00	0.	*	1	2340	285	.00	.00	.00	0.
1	1115	136	.00	.00	.00	0.	*	1	2345	286	.00	.00	.00	0.
1	1120	137	.00	.00	.00	0.	*	1	2350	287	.00	.00	.00	0.
1	1125	138	.00	.00	.00	0.	*	1	2355	288	.00	.00	.00	0.
1	1130	139	.00	.00	.00	0.	*	2	0000	289	.00	.00	.00	0.
1	1135	140	.00	.00	.00	0.	*	2	0005	290	.00	.00	.00	0.
1	1140	141	.00	.00	.00	0.	*	2	0010	291	.00	.00	.00	0.
1	1145	142	.00	.00	.00	0.	*	2	0015	292	.00	.00	.00	0.
1	1150	143	.00	.00	.00	0.	*	2	0020	293	.00	.00	.00	0.
1	1155	144	.00	.00	.00	0.	*	2	0025	294	.00	.00	.00	0.
1	1200	145	.00	.00	.00	0.	*	2	0030	295	.00	.00	.00	0.
1	1205	146	.00	.00	.00	0.	*	2	0035	296	.00	.00	.00	0.
1	1210	147	.00	.00	.00	0.	*	2	0040	297	.00	.00	.00	0.
1	1215	148	.00	.00	.00	0.	*	2	0045	298	.00	.00	.00	0.
1	1220	149	.00	.00	.00	0.	*	2	0050	299	.00	.00	.00	0.
1	1225	150	.00	.00	.00	0.	*	2	0055	300	.00	.00	.00	0.
							*							

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TOTAL RAINFALL = 1.99, TOTAL LOSS = 1.34, TOTAL EXCESS = .65

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
97.	4.67		28.	7.	7.	7.
		(INCHES)	.634	.645	.645	.645
		(AC-FT)	14.	14.	14.	14.

CUMULATIVE AREA = .41 SQ MI

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          **************
          *            *
 19 KK    *   Node17   *
          *            *
          **************
                    basin routing through transfer pipe culverts

 26 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

             HYDROGRAPH ROUTING DATA

 21 RS          STORAGE ROUTING
                      NSTPS          1  NUMBER OF SUBREACHES
                       ITYP       STOR  TYPE OF INITIAL CONDITION
                     RSVRIC        .00  INITIAL CONDITION
                          X        .00 WORKING R AND D COEFFICIENT

 22 SV            STORAGE        .0       .0       .1       .2      1.8      3.4      7.6     13.8

 23 SE          ELEVATION      77.82    78.00    79.00    80.00    81.00    82.00    83.00    84.00

 24 SL          LOW-LEVEL OUTLET
                      ELEVL      77.82  ELEVATION AT CENTER OF OUTLET
                      CAREA      15.70  CROSS-SECTIONAL AREA
                       COQL        .60  COEFFICIENT
                       EXPL        .50  EXPONENT OF HEAD

 25 SS          SPILLWAY
                       CREL      83.80  SPILLWAY CREST ELEVATION
                      SPWID      15.00  SPILLWAY WIDTH
                       COQW       3.00  WEIR COEFFICIENT
                       EXPW       1.50  EXPONENT OF HEAD

                                                  ***

                                   COMPUTED OUTFLOW-ELEVATION DATA

        OUTFLOW        .00    109.17    115.06    121.61    128.96    137.24    146.67    157.49    170.03    184.75
      ELEVATION      77.82     79.91     80.14     80.41     80.73     81.12     81.59     82.17     82.89     83.80

        OUTFLOW     186.42    186.80    187.23    187.71    188.24    188.83    189.49    190.20    190.98    191.84
      ELEVATION      83.86     83.87     83.89     83.90     83.91     83.93     83.95     83.96     83.98     84.00

                                 COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

        STORAGE        .00       .02       .11       .19       .20       .42       .85      1.37      1.79      1.98
        OUTFLOW        .00     32.05     82.07    109.17    111.55    115.06    121.61    128.96    134.72    137.24
      ELEVATION      77.82     78.00     79.00     79.91     80.00     80.14     80.41     80.73     81.00     81.12
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STORAGE	2.73	3.38	4.07	7.09	7.57	12.56	12.95	13.03	13.10	13.19
OUTFLOW	146.67	154.46	157.49	170.03	171.95	184.75	186.42	186.80	187.23	187.71
ELEVATION	81.59	82.00	82.17	82.89	83.00	83.80	83.86	83.87	83.89	83.90

STORAGE	13.28	13.37	13.47	13.58	13.69	13.81
OUTFLOW	188.24	188.83	189.49	190.20	190.98	191.84
ELEVATION	83.91	83.93	83.95	83.96	83.98	84.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 0. TO 109.
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

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HYDROGRAPH AT STATION Node17

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DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	77.8	*	1		0820	101	3.	.0	77.8	*	1		1640	201	0.	.0	77.8
1		0005	2	0.	.0	77.8	*	1		0825	102	3.	.0	77.8	*	1		1645	202	0.	.0	77.8
1		0010	3	0.	.0	77.8	*	1		0830	103	3.	.0	77.8	*	1		1650	203	0.	.0	77.8
1		0015	4	0.	.0	77.8	*	1		0835	104	3.	.0	77.8	*	1		1655	204	0.	.0	77.8
1		0020	5	0.	.0	77.8	*	1		0840	105	2.	.0	77.8	*	1		1700	205	0.	.0	77.8
1		0025	6	0.	.0	77.8	*	1		0845	106	2.	.0	77.8	*	1		1705	206	0.	.0	77.8
1		0030	7	0.	.0	77.8	*	1		0850	107	2.	.0	77.8	*	1		1710	207	0.	.0	77.8
1		0035	8	0.	.0	77.8	*	1		0855	108	2.	.0	77.8	*	1		1715	208	0.	.0	77.8
1		0040	9	0.	.0	77.8	*	1		0900	109	2.	.0	77.8	*	1		1720	209	0.	.0	77.8
1		0045	10	0.	.0	77.8	*	1		0905	110	2.	.0	77.8	*	1		1725	210	0.	.0	77.8
1		0050	11	0.	.0	77.8	*	1		0910	111	1.	.0	77.8	*	1		1730	211	0.	.0	77.8
1		0055	12	0.	.0	77.8	*	1		0915	112	1.	.0	77.8	*	1		1735	212	0.	.0	77.8
1		0100	13	0.	.0	77.8	*	1		0920	113	1.	.0	77.8	*	1		1740	213	0.	.0	77.8
1		0105	14	0.	.0	77.8	*	1		0925	114	1.	.0	77.8	*	1		1745	214	0.	.0	77.8
1		0110	15	1.	.0	77.8	*	1		0930	115	1.	.0	77.8	*	1		1750	215	0.	.0	77.8
1		0115	16	1.	.0	77.8	*	1		0935	116	1.	.0	77.8	*	1		1755	216	0.	.0	77.8
1		0120	17	1.	.0	77.8	*	1		0940	117	1.	.0	77.8	*	1		1800	217	0.	.0	77.8
1		0125	18	1.	.0	77.8	*	1		0945	118	0.	.0	77.8	*	1		1805	218	0.	.0	77.8
1		0130	19	1.	.0	77.8	*	1		0950	119	0.	.0	77.8	*	1		1810	219	0.	.0	77.8
1		0135	20	1.	.0	77.8	*	1		0955	120	0.	.0	77.8	*	1		1815	220	0.	.0	77.8
1		0140	21	1.	.0	77.8	*	1		1000	121	0.	.0	77.8	*	1		1820	221	0.	.0	77.8
1		0145	22	1.	.0	77.8	*	1		1005	122	0.	.0	77.8	*	1		1825	222	0.	.0	77.8
1		0150	23	1.	.0	77.8	*	1		1010	123	0.	.0	77.8	*	1		1830	223	0.	.0	77.8
1		0155	24	1.	.0	77.8	*	1		1015	124	0.	.0	77.8	*	1		1835	224	0.	.0	77.8
1		0200	25	1.	.0	77.8	*	1		1020	125	0.	.0	77.8	*	1		1840	225	0.	.0	77.8
1		0205	26	1.	.0	77.8	*	1		1025	126	0.	.0	77.8	*	1		1845	226	0.	.0	77.8
1		0210	27	1.	.0	77.8	*	1		1030	127	0.	.0	77.8	*	1		1850	227	0.	.0	77.8
1		0215	28	1.	.0	77.8	*	1		1035	128	0.	.0	77.8	*	1		1855	228	0.	.0	77.8
1		0220	29	1.	.0	77.8	*	1		1040	129	0.	.0	77.8	*	1		1900	229	0.	.0	77.8
1		0225	30	1.	.0	77.8	*	1		1045	130	0.	.0	77.8	*	1		1905	230	0.	.0	77.8
1		0230	31	1.	.0	77.8	*	1		1050	131	0.	.0	77.8	*	1		1910	231	0.	.0	77.8
1		0235	32	1.	.0	77.8	*	1		1055	132	0.	.0	77.8	*	1		1915	232	0.	.0	77.8
1		0240	33	1.	.0	77.8	*	1		1100	133	0.	.0	77.8	*	1		1920	233	0.	.0	77.8
1		0245	34	1.	.0	77.8	*	1		1105	134	0.	.0	77.8	*	1		1925	234	0.	.0	77.8
1		0250	35	1.	.0	77.8	*	1		1110	135	0.	.0	77.8	*	1		1930	235	0.	.0	77.8
1		0255	36	1.	.0	77.8	*	1		1115	136	0.	.0	77.8	*	1		1935	236	0.	.0	77.8
1		0300	37	1.	.0	77.8	*	1		1120	137	0.	.0	77.8	*	1		1940	237	0.	.0	77.8
1		0305	38	1.	.0	77.8	*	1		1125	138	0.	.0	77.8	*	1		1945	238	0.	.0	77.8

1	0310	39	1.	.0	77.8	*	1	1130	139	0.	.0	77.8	*	1	1950	239	0.	.0	77.8
1	0315	40	1.	.0	77.8	*	1	1135	140	0.	.0	77.8	*	1	1955	240	0.	.0	77.8
1	0320	41	2.	.0	77.8	*	1	1140	141	0.	.0	77.8	*	1	2000	241	0.	.0	77.8
1	0325	42	2.	.0	77.8	*	1	1145	142	0.	.0	77.8	*	1	2005	242	0.	.0	77.8
1	0330	43	2.	.0	77.8	*	1	1150	143	0.	.0	77.8	*	1	2010	243	0.	.0	77.8
1	0335	44	2.	.0	77.8	*	1	1155	144	0.	.0	77.8	*	1	2015	244	0.	.0	77.8
1	0340	45	2.	.0	77.8	*	1	1200	145	0.	.0	77.8	*	1	2020	245	0.	.0	77.8
1	0345	46	3.	.0	77.8	*	1	1205	146	0.	.0	77.8	*	1	2025	246	0.	.0	77.8
1	0350	47	4.	.0	77.8	*	1	1210	147	0.	.0	77.8	*	1	2030	247	0.	.0	77.8
1	0355	48	7.	.0	77.9	*	1	1215	148	0.	.0	77.8	*	1	2035	248	0.	.0	77.8
1	0400	49	12.	.0	77.9	*	1	1220	149	0.	.0	77.8	*	1	2040	249	0.	.0	77.8
1	0405	50	20.	.0	77.9	*	1	1225	150	0.	.0	77.8	*	1	2045	250	0.	.0	77.8
1	0410	51	30.	.0	78.0	*	1	1230	151	0.	.0	77.8	*	1	2050	251	0.	.0	77.8
1	0415	52	41.	.0	78.2	*	1	1235	152	0.	.0	77.8	*	1	2055	252	0.	.0	77.8
1	0420	53	58.	.1	78.5	*	1	1240	153	0.	.0	77.8	*	1	2100	253	0.	.0	77.8
1	0425	54	77.	.1	78.9	*	1	1245	154	0.	.0	77.8	*	1	2105	254	0.	.0	77.8
1	0430	55	89.	.1	79.2	*	1	1250	155	0.	.0	77.8	*	1	2110	255	0.	.0	77.8
1	0435	56	96.	.2	79.5	*	1	1255	156	0.	.0	77.8	*	1	2115	256	0.	.0	77.8
1	0440	57	97.	.2	79.5	*	1	1300	157	0.	.0	77.8	*	1	2120	257	0.	.0	77.8
1	0445	58	96.	.2	79.5	*	1	1305	158	0.	.0	77.8	*	1	2125	258	0.	.0	77.8
1	0450	59	94.	.1	79.4	*	1	1310	159	0.	.0	77.8	*	1	2130	259	0.	.0	77.8
1	0455	60	92.	.1	79.3	*	1	1315	160	0.	.0	77.8	*	1	2135	260	0.	.0	77.8
1	0500	61	88.	.1	79.2	*	1	1320	161	0.	.0	77.8	*	1	2140	261	0.	.0	77.8
1	0505	62	84.	.1	79.1	*	1	1325	162	0.	.0	77.8	*	1	2145	262	0.	.0	77.8
1	0510	63	80.	.1	79.0	*	1	1330	163	0.	.0	77.8	*	1	2150	263	0.	.0	77.8
1	0515	64	75.	.1	78.9	*	1	1335	164	0.	.0	77.8	*	1	2155	264	0.	.0	77.8
1	0520	65	71.	.1	78.8	*	1	1340	165	0.	.0	77.8	*	1	2200	265	0.	.0	77.8
1	0525	66	65.	.1	78.7	*	1	1345	166	0.	.0	77.8	*	1	2205	266	0.	.0	77.8
1	0530	67	60.	.1	78.6	*	1	1350	167	0.	.0	77.8	*	1	2210	267	0.	.0	77.8
1	0535	68	55.	.1	78.5	*	1	1355	168	0.	.0	77.8	*	1	2215	268	0.	.0	77.8
1	0540	69	51.	.1	78.4	*	1	1400	169	0.	.0	77.8	*	1	2220	269	0.	.0	77.8
1	0545	70	47.	.0	78.3	*	1	1405	170	0.	.0	77.8	*	1	2225	270	0.	.0	77.8
1	0550	71	43.	.0	78.2	*	1	1410	171	0.	.0	77.8	*	1	2230	271	0.	.0	77.8
1	0555	72	40.	.0	78.2	*	1	1415	172	0.	.0	77.8	*	1	2235	272	0.	.0	77.8
1	0600	73	37.	.0	78.1	*	1	1420	173	0.	.0	77.8	*	1	2240	273	0.	.0	77.8
1	0605	74	34.	.0	78.0	*	1	1425	174	0.	.0	77.8	*	1	2245	274	0.	.0	77.8
1	0610	75	31.	.0	78.0	*	1	1430	175	0.	.0	77.8	*	1	2250	275	0.	.0	77.8
1	0615	76	28.	.0	78.0	*	1	1435	176	0.	.0	77.8	*	1	2255	276	0.	.0	77.8
1	0620	77	26.	.0	78.0	*	1	1440	177	0.	.0	77.8	*	1	2300	277	0.	.0	77.8
1	0625	78	24.	.0	78.0	*	1	1445	178	0.	.0	77.8	*	1	2305	278	0.	.0	77.8
1	0630	79	22.	.0	77.9	*	1	1450	179	0.	.0	77.8	*	1	2310	279	0.	.0	77.8
1	0635	80	21.	.0	77.9	*	1	1455	180	0.	.0	77.8	*	1	2315	280	0.	.0	77.8
1	0640	81	19.	.0	77.9	*	1	1500	181	0.	.0	77.8	*	1	2320	281	0.	.0	77.8
1	0645	82	17.	.0	77.9	*	1	1505	182	0.	.0	77.8	*	1	2325	282	0.	.0	77.8
1	0650	83	16.	.0	77.9	*	1	1510	183	0.	.0	77.8	*	1	2330	283	0.	.0	77.8
1	0655	84	15.	.0	77.9	*	1	1515	184	0.	.0	77.8	*	1	2335	284	0.	.0	77.8
1	0700	85	14.	.0	77.9	*	1	1520	185	0.	.0	77.8	*	1	2340	285	0.	.0	77.8
1	0705	86	12.	.0	77.9	*	1	1525	186	0.	.0	77.8	*	1	2345	286	0.	.0	77.8
1	0710	87	11.	.0	77.9	*	1	1530	187	0.	.0	77.8	*	1	2350	287	0.	.0	77.8
1	0715	88	11.	.0	77.9	*	1	1535	188	0.	.0	77.8	*	1	2355	288	0.	.0	77.8
1	0720	89	10.	.0	77.9	*	1	1540	189	0.	.0	77.8	*	2	0000	289	0.	.0	77.8
1	0725	90	9.	.0	77.9	*	1	1545	190	0.	.0	77.8	*	2	0005	290	0.	.0	77.8
1	0730	91	8.	.0	77.9	*	1	1550	191	0.	.0	77.8	*	2	0010	291	0.	.0	77.8
1	0735	92	7.	.0	77.9	*	1	1555	192	0.	.0	77.8	*	2	0015	292	0.	.0	77.8
1	0740	93	7.	.0	77.9	*	1	1600	193	0.	.0	77.8	*	2	0020	293	0.	.0	77.8
1	0745	94	6.	.0	77.9	*	1	1605	194	0.	.0	77.8	*	2	0025	294	0.	.0	77.8
1	0750	95	6.	.0	77.9	*	1	1610	195	0.	.0	77.8	*	2	0030	295	0.	.0	77.8
1	0755	96	5.	.0	77.8	*	1	1615	196	0.	.0	77.8	*	2	0035	296	0.	.0	77.8

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 1    0800  97     5.     .0    77.8 *  1    1620 197     0.     .0    77.8 *  2    0040 297     0.     .0    77.8
 1    0805  98     5.     .0    77.8 *  1    1625 198     0.     .0    77.8 *  2    0045 298     0.     .0    77.8
 1    0810  99     4.     .0    77.8 *  1    1630 199     0.     .0    77.8 *  2    0050 299     0.     .0    77.8
 1    0815 100     4.     .0    77.8 *  1    1635 200     0.     .0    77.8 *  2    0055 300     0.     .0    77.8
                                      *                                      *
*****************************************************************************************************************

 PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                     6-HR       24-HR       72-HR     24.92-HR
 (CFS)       (HR)
                          (CFS)
    97.      4.67                    28.         7.          7.          7.
                       (INCHES)     .634        .645        .645        .645
                        (AC-FT)      14.         14.         14.         14.

PEAK STORAGE   TIME                          MAXIMUM AVERAGE STORAGE
                                     6-HR       24-HR       72-HR     24.92-HR
 (AC-FT)     (HR)
      0.      4.67                     0.          0.          0.          0.

 PEAK STAGE    TIME                          MAXIMUM AVERAGE STAGE
                                     6-HR       24-HR       72-HR     24.92-HR
 (FEET)      (HR)
   79.51      4.67                   78.16       77.91       77.90       77.90

                        CUMULATIVE AREA =     .41 SQ MI


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


          **************
          *            *
 27 KK    *   Node10   *
          *            *
          **************
                        Route water from culverts to middle of subdivision

 33 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

              HYDROGRAPH ROUTING DATA

 29 RS          STORAGE ROUTING
                      NSTPS          1  NUMBER OF SUBREACHES
                       ITYP       STOR  TYPE OF INITIAL CONDITION
                     RSVRIC        .00  INITIAL CONDITION
                          X        .00 WORKING R AND D COEFFICIENT

 30 RC          NORMAL DEPTH CHANNEL
                        ANL       .035  LEFT OVERBANK N-VALUE
                       ANCH       .035  MAIN CHANNEL N-VALUE
                        ANR       .035  RIGHT OVERBANK N-VALUE
                      RLNTH       650.  REACH LENGTH
```

SEL .0022 ENERGY SLOPE
ELMAX 15.0 MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

CROSS-SECTION DATA

		--- LEFT OVERBANK ---			+ ------ MAIN CHANNEL		------- +	--- RIGHT OVERBANK ---	
32 RY	ELEVATION	15.00	11.00	10.00	5.85	5.85	10.00	11.00	15.00
31 RX	DISTANCE	.00	20.00	120.00	136.60	146.60	162.20	262.20	282.20

***

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	.09	.20	.34	.50	.69	.91	1.16	1.43	1.78
OUTFLOW	.00	6.32	21.74	46.35	81.01	126.67	184.32	254.90	339.36	449.06
ELEVATION	5.85	6.33	6.81	7.29	7.78	8.26	8.74	9.22	9.70	10.18
STORAGE	2.70	4.27	6.04	7.84	9.68	11.55	13.46	15.40	17.38	19.39
OUTFLOW	628.29	931.10	1390.33	1963.47	2640.18	3413.96	4280.30	5235.91	6278.27	7405.46
ELEVATION	10.67	11.15	11.63	12.11	12.59	13.07	13.56	14.04	14.52	15.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 255. TO 7405.
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

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HYDROGRAPH AT STATION Node10

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DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	5.8	*	1		0820	101	4.	.1	6.2	*	1		1640	201	0.	.0	5.8
1		0005	2	0.	.0	5.9	*	1		0825	102	4.	.1	6.1	*	1		1645	202	0.	.0	5.8
1		0010	3	0.	.0	5.9	*	1		0830	103	4.	.0	6.1	*	1		1650	203	0.	.0	5.8
1		0015	4	0.	.0	5.9	*	1		0835	104	3.	.0	6.1	*	1		1655	204	0.	.0	5.8
1		0020	5	0.	.0	5.9	*	1		0840	105	3.	.0	6.1	*	1		1700	205	0.	.0	5.8
1		0025	6	0.	.0	5.9	*	1		0845	106	3.	.0	6.1	*	1		1705	206	0.	.0	5.8
1		0030	7	0.	.0	5.9	*	1		0850	107	3.	.0	6.0	*	1		1710	207	0.	.0	5.8
1		0035	8	0.	.0	5.9	*	1		0855	108	2.	.0	6.0	*	1		1715	208	0.	.0	5.8
1		0040	9	0.	.0	5.9	*	1		0900	109	2.	.0	6.0	*	1		1720	209	0.	.0	5.8
1		0045	10	0.	.0	5.9	*	1		0905	110	2.	.0	6.0	*	1		1725	210	0.	.0	5.8
1		0050	11	0.	.0	5.9	*	1		0910	111	2.	.0	6.0	*	1		1730	211	0.	.0	5.8
1		0055	12	0.	.0	5.9	*	1		0915	112	2.	.0	6.0	*	1		1735	212	0.	.0	5.8
1		0100	13	0.	.0	5.9	*	1		0920	113	2.	.0	6.0	*	1		1740	213	0.	.0	5.8
1		0105	14	0.	.0	5.9	*	1		0925	114	1.	.0	6.0	*	1		1745	214	0.	.0	5.8
1		0110	15	0.	.0	5.9	*	1		0930	115	1.	.0	5.9	*	1		1750	215	0.	.0	5.8
1		0115	16	0.	.0	5.9	*	1		0935	116	1.	.0	5.9	*	1		1755	216	0.	.0	5.8
1		0120	17	1.	.0	5.9	*	1		0940	117	1.	.0	5.9	*	1		1800	217	0.	.0	5.8
1		0125	18	1.	.0	5.9	*	1		0945	118	1.	.0	5.9	*	1		1805	218	0.	.0	5.8
1		0130	19	1.	.0	5.9	*	1		0950	119	1.	.0	5.9	*	1		1810	219	0.	.0	5.8
1		0135	20	1.	.0	5.9	*	1		0955	120	0.	.0	5.9	*	1		1815	220	0.	.0	5.8
1		0140	21	1.	.0	5.9	*	1		1000	121	0.	.0	5.9	*	1		1820	221	0.	.0	5.8
1		0145	22	1.	.0	5.9	*	1		1005	122	0.	.0	5.9	*	1		1825	222	0.	.0	5.8
1		0150	23	1.	.0	5.9	*	1		1010	123	0.	.0	5.9	*	1		1830	223	0.	.0	5.8
1		0155	24	1.	.0	5.9	*	1		1015	124	0.	.0	5.9	*	1		1835	224	0.	.0	5.8
1		0200	25	1.	.0	5.9	*	1		1020	125	0.	.0	5.9	*	1		1840	225	0.	.0	5.8

1	0205	26	1.	.0	5.9	*	1	1025	126	0.	.0	5.9	*	1	1845	226	0.	.0	5.8
1	0210	27	1.	.0	5.9	*	1	1030	127	0.	.0	5.9	*	1	1850	227	0.	.0	5.8
1	0215	28	1.	.0	5.9	*	1	1035	128	0.	.0	5.9	*	1	1855	228	0.	.0	5.8
1	0220	29	1.	.0	5.9	*	1	1040	129	0.	.0	5.9	*	1	1900	229	0.	.0	5.8
1	0225	30	1.	.0	5.9	*	1	1045	130	0.	.0	5.9	*	1	1905	230	0.	.0	5.8
1	0230	31	1.	.0	5.9	*	1	1050	131	0.	.0	5.9	*	1	1910	231	0.	.0	5.8
1	0235	32	1.	.0	5.9	*	1	1055	132	0.	.0	5.9	*	1	1915	232	0.	.0	5.8
1	0240	33	1.	.0	5.9	*	1	1100	133	0.	.0	5.9	*	1	1920	233	0.	.0	5.8
1	0245	34	1.	.0	5.9	*	1	1105	134	0.	.0	5.9	*	1	1925	234	0.	.0	5.8
1	0250	35	1.	.0	5.9	*	1	1110	135	0.	.0	5.9	*	1	1930	235	0.	.0	5.8
1	0255	36	1.	.0	5.9	*	1	1115	136	0.	.0	5.9	*	1	1935	236	0.	.0	5.8
1	0300	37	1.	.0	5.9	*	1	1120	137	0.	.0	5.9	*	1	1940	237	0.	.0	5.8
1	0305	38	1.	.0	5.9	*	1	1125	138	0.	.0	5.9	*	1	1945	238	0.	.0	5.8
1	0310	39	1.	.0	5.9	*	1	1130	139	0.	.0	5.9	*	1	1950	239	0.	.0	5.8
1	0315	40	1.	.0	6.0	*	1	1135	140	0.	.0	5.9	*	1	1955	240	0.	.0	5.8
1	0320	41	1.	.0	6.0	*	1	1140	141	0.	.0	5.9	*	1	2000	241	0.	.0	5.8
1	0325	42	1.	.0	6.0	*	1	1145	142	0.	.0	5.9	*	1	2005	242	0.	.0	5.8
1	0330	43	2.	.0	6.0	*	1	1150	143	0.	.0	5.9	*	1	2010	243	0.	.0	5.8
1	0335	44	2.	.0	6.0	*	1	1155	144	0.	.0	5.9	*	1	2015	244	0.	.0	5.8
1	0340	45	2.	.0	6.0	*	1	1200	145	0.	.0	5.9	*	1	2020	245	0.	.0	5.8
1	0345	46	2.	.0	6.0	*	1	1205	146	0.	.0	5.9	*	1	2025	246	0.	.0	5.8
1	0350	47	3.	.0	6.1	*	1	1210	147	0.	.0	5.9	*	1	2030	247	0.	.0	5.8
1	0355	48	4.	.1	6.1	*	1	1215	148	0.	.0	5.9	*	1	2035	248	0.	.0	5.8
1	0400	49	6.	.1	6.3	*	1	1220	149	0.	.0	5.9	*	1	2040	249	0.	.0	5.8
1	0405	50	12.	.1	6.5	*	1	1225	150	0.	.0	5.9	*	1	2045	250	0.	.0	5.8
1	0410	51	21.	.2	6.8	*	1	1230	151	0.	.0	5.9	*	1	2050	251	0.	.0	5.8
1	0415	52	32.	.3	7.0	*	1	1235	152	0.	.0	5.9	*	1	2055	252	0.	.0	5.8
1	0420	53	45.	.3	7.3	*	1	1240	153	0.	.0	5.9	*	1	2100	253	0.	.0	5.8
1	0425	54	64.	.4	7.5	*	1	1245	154	0.	.0	5.9	*	1	2105	254	0.	.0	5.8
1	0430	55	80.	.5	7.8	*	1	1250	155	0.	.0	5.8	*	1	2110	255	0.	.0	5.8
1	0435	56	91.	.5	7.9	*	1	1255	156	0.	.0	5.8	*	1	2115	256	0.	.0	5.8
1	0440	57	96.	.6	7.9	*	1	1300	157	0.	.0	5.8	*	1	2120	257	0.	.0	5.8
1	0445	58	97.	.6	7.9	*	1	1305	158	0.	.0	5.8	*	1	2125	258	0.	.0	5.8
1	0450	59	95.	.6	7.9	*	1	1310	159	0.	.0	5.8	*	1	2130	259	0.	.0	5.8
1	0455	60	93.	.6	7.9	*	1	1315	160	0.	.0	5.8	*	1	2135	260	0.	.0	5.8
1	0500	61	90.	.5	7.9	*	1	1320	161	0.	.0	5.8	*	1	2140	261	0.	.0	5.8
1	0505	62	87.	.5	7.8	*	1	1325	162	0.	.0	5.8	*	1	2145	262	0.	.0	5.8
1	0510	63	83.	.5	7.8	*	1	1330	163	0.	.0	5.8	*	1	2150	263	0.	.0	5.8
1	0515	64	78.	.5	7.7	*	1	1335	164	0.	.0	5.8	*	1	2155	264	0.	.0	5.8
1	0520	65	74.	.5	7.7	*	1	1340	165	0.	.0	5.8	*	1	2200	265	0.	.0	5.8
1	0525	66	69.	.4	7.6	*	1	1345	166	0.	.0	5.8	*	1	2205	266	0.	.0	5.8
1	0530	67	64.	.4	7.5	*	1	1350	167	0.	.0	5.8	*	1	2210	267	0.	.0	5.8
1	0535	68	59.	.4	7.5	*	1	1355	168	0.	.0	5.8	*	1	2215	268	0.	.0	5.8
1	0540	69	54.	.4	7.4	*	1	1400	169	0.	.0	5.8	*	1	2220	269	0.	.0	5.8
1	0545	70	50.	.4	7.3	*	1	1405	170	0.	.0	5.8	*	1	2225	270	0.	.0	5.8
1	0550	71	46.	.3	7.3	*	1	1410	171	0.	.0	5.8	*	1	2230	271	0.	.0	5.8
1	0555	72	43.	.3	7.2	*	1	1415	172	0.	.0	5.8	*	1	2235	272	0.	.0	5.8
1	0600	73	39.	.3	7.2	*	1	1420	173	0.	.0	5.8	*	1	2240	273	0.	.0	5.8
1	0605	74	36.	.3	7.1	*	1	1425	174	0.	.0	5.8	*	1	2245	274	0.	.0	5.8
1	0610	75	33.	.3	7.0	*	1	1430	175	0.	.0	5.8	*	1	2250	275	0.	.0	5.8
1	0615	76	31.	.2	7.0	*	1	1435	176	0.	.0	5.8	*	1	2255	276	0.	.0	5.8
1	0620	77	28.	.2	6.9	*	1	1440	177	0.	.0	5.8	*	1	2300	277	0.	.0	5.8
1	0625	78	26.	.2	6.9	*	1	1445	178	0.	.0	5.8	*	1	2305	278	0.	.0	5.8
1	0630	79	24.	.2	6.9	*	1	1450	179	0.	.0	5.8	*	1	2310	279	0.	.0	5.8
1	0635	80	22.	.2	6.8	*	1	1455	180	0.	.0	5.8	*	1	2315	280	0.	.0	5.8
1	0640	81	21.	.2	6.8	*	1	1500	181	0.	.0	5.8	*	1	2320	281	0.	.0	5.8
1	0645	82	19.	.2	6.7	*	1	1505	182	0.	.0	5.8	*	1	2325	282	0.	.0	5.8
1	0650	83	18.	.2	6.7	*	1	1510	183	0.	.0	5.8	*	1	2330	283	0.	.0	5.8

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1    0655  84    16.    .2    6.6 *  1    1515 184    0.    .0    5.8 *  1    2335 284    0.    .0    5.8
1    0700  85    15.    .1    6.6 *  1    1520 185    0.    .0    5.8 *  1    2340 285    0.    .0    5.8
1    0705  86    14.    .1    6.6 *  1    1525 186    0.    .0    5.8 *  1    2345 286    0.    .0    5.8
1    0710  87    13.    .1    6.5 *  1    1530 187    0.    .0    5.8 *  1    2350 287    0.    .0    5.8
1    0715  88    12.    .1    6.5 *  1    1535 188    0.    .0    5.8 *  1    2355 288    0.    .0    5.8
1    0720  89    11.    .1    6.5 *  1    1540 189    0.    .0    5.8 *  2    0000 289    0.    .0    5.8
1    0725  90    10.    .1    6.4 *  1    1545 190    0.    .0    5.8 *  2    0005 290    0.    .0    5.8
1    0730  91     9.    .1    6.4 *  1    1550 191    0.    .0    5.8 *  2    0010 291    0.    .0    5.8
1    0735  92     8.    .1    6.4 *  1    1555 192    0.    .0    5.8 *  2    0015 292    0.    .0    5.8
1    0740  93     8.    .1    6.4 *  1    1600 193    0.    .0    5.8 *  2    0020 293    0.    .0    5.8
1    0745  94     7.    .1    6.4 *  1    1605 194    0.    .0    5.8 *  2    0025 294    0.    .0    5.8
1    0750  95     6.    .1    6.3 *  1    1610 195    0.    .0    5.8 *  2    0030 295    0.    .0    5.8
1    0755  96     6.    .1    6.3 *  1    1615 196    0.    .0    5.8 *  2    0035 296    0.    .0    5.8
1    0800  97     6.    .1    6.3 *  1    1620 197    0.    .0    5.8 *  2    0040 297    0.    .0    5.8
1    0805  98     5.    .1    6.3 *  1    1625 198    0.    .0    5.8 *  2    0045 298    0.    .0    5.8
1    0810  99     5.    .1    6.2 *  1    1630 199    0.    .0    5.8 *  2    0050 299    0.    .0    5.8
1    0815 100     5.    .1    6.2 *  1    1635 200    0.    .0    5.8 *  2    0055 300    0.    .0    5.8
                                     *                                   *
*****************************************************************************************************************

 PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                    6-HR       24-HR       72-HR     24.92-HR
  (CFS)       (HR)
                          (CFS)
    97.       4.75                 28.          7.          7.          7.
                        (INCHES)   .634        .645        .645        .645
                         (AC-FT)    14.         14.         14.         14.

PEAK STORAGE   TIME                          MAXIMUM AVERAGE STORAGE
                                    6-HR       24-HR       72-HR     24.92-HR
 (AC-FT)      (HR)
      1.       4.75                  0.          0.          0.          0.

 PEAK STAGE    TIME                          MAXIMUM AVERAGE STAGE
                                    6-HR       24-HR       72-HR     24.92-HR
  (FEET)      (HR)
    7.94       4.75                 6.74        6.08        6.07        6.07

                        CUMULATIVE AREA =     .41 SQ MI


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


          **************
          *            *
 34 KK    *   DEVELO   *     PE RAINFALL FOR SUBBASIN G2
          *            *
          **************
                        6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
                        THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
                       L =  .41  Kb = .064  Adj. Slope =   48.9

 44 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
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                QSCAL          0.  HYDROGRAPH PLOT SCALE

          SUBBASIN RUNOFF DATA

38 BA       SUBBASIN CHARACTERISTICS
                TAREA        .04  SUBBASIN AREA

            PRECIPITATION DATA

39 PB           STORM       1.99  BASIN TOTAL PRECIPITATION

11 PI         INCREMENTAL PRECIPITATION PATTERN
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .01       .01       .01       .01       .01       .01       .03
                .03       .03       .05       .05       .05       .15       .15       .15       .03       .03
                .03       .01       .01       .01       .01       .01       .01       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00

40 LG       GREEN AND AMPT LOSS RATE
                STRTL        .43  STARTING LOSS
                  DTH        .25  MOISTURE DEFICIT
                 PSIF       3.50  WETTING FRONT SUCTION
                XKSAT        .51  HYDRAULIC CONDUCTIVITY
                RTIMP      30.00  PERCENT IMPERVIOUS AREA

41 UC       CLARK UNITGRAPH
                  TC        .46  TIME OF CONCENTRATION
                   R        .48  STORAGE COEFFICIENT

42 UA       ACCUMULATED-AREA VS. TIME,  11 ORDINATES
                 .0       5.0      16.0      30.0      65.0      77.0      84.0      90.0      94.0      97.0
               100.0

                                                  ***

                                          UNIT HYDROGRAPH PARAMETERS
                                   CLARK   TC=   .46 HR,      R=   .48 HR
                                  SNYDER   TP=   .32 HR,     CP=   .43

                                          UNIT HYDROGRAPH
                                     33 END-OF-PERIOD ORDINATES
            3.       16.       30.       35.       33.       30.       26.       22.       18.       15.
           13.       11.        9.        8.        6.        5.        5.        4.        3.        3.
            2.        2.        2.        1.        1.        1.        1.        1.        1.        0.
            0.        0.        0.
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HYDROGRAPH AT STATION DEVELO

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1		0000	1	.00	.00	.00	0.	*	1		1230	151	.00	.00	.00	0.

1	0005	2	.01	.00	.00	0.	*	1	1235	152	.00	.00	.00	0.
1	0010	3	.01	.00	.00	0.	*	1	1240	153	.00	.00	.00	0.
1	0015	4	.01	.00	.00	0.	*	1	1245	154	.00	.00	.00	0.
1	0020	5	.01	.00	.00	0.	*	1	1250	155	.00	.00	.00	0.
1	0025	6	.01	.00	.00	0.	*	1	1255	156	.00	.00	.00	0.
1	0030	7	.01	.00	.00	0.	*	1	1300	157	.00	.00	.00	0.
1	0035	8	.01	.00	.00	0.	*	1	1305	158	.00	.00	.00	0.
1	0040	9	.01	.00	.00	0.	*	1	1310	159	.00	.00	.00	0.
1	0045	10	.01	.00	.00	0.	*	1	1315	160	.00	.00	.00	0.
1	0050	11	.01	.00	.00	0.	*	1	1320	161	.00	.00	.00	0.
1	0055	12	.01	.00	.00	0.	*	1	1325	162	.00	.00	.00	0.
1	0100	13	.01	.00	.00	0.	*	1	1330	163	.00	.00	.00	0.
1	0105	14	.01	.00	.00	0.	*	1	1335	164	.00	.00	.00	0.
1	0110	15	.01	.00	.00	0.	*	1	1340	165	.00	.00	.00	0.
1	0115	16	.01	.00	.00	0.	*	1	1345	166	.00	.00	.00	0.
1	0120	17	.01	.00	.00	0.	*	1	1350	167	.00	.00	.00	0.
1	0125	18	.01	.00	.00	0.	*	1	1355	168	.00	.00	.00	0.
1	0130	19	.01	.00	.00	0.	*	1	1400	169	.00	.00	.00	0.
1	0135	20	.01	.00	.00	0.	*	1	1405	170	.00	.00	.00	0.
1	0140	21	.01	.00	.00	0.	*	1	1410	171	.00	.00	.00	0.
1	0145	22	.01	.00	.00	0.	*	1	1415	172	.00	.00	.00	0.
1	0150	23	.01	.00	.00	0.	*	1	1420	173	.00	.00	.00	0.
1	0155	24	.01	.00	.00	0.	*	1	1425	174	.00	.00	.00	0.
1	0200	25	.01	.00	.00	0.	*	1	1430	175	.00	.00	.00	0.
1	0205	26	.01	.00	.00	0.	*	1	1435	176	.00	.00	.00	0.
1	0210	27	.01	.00	.00	0.	*	1	1440	177	.00	.00	.00	0.
1	0215	28	.01	.00	.00	0.	*	1	1445	178	.00	.00	.00	0.
1	0220	29	.01	.01	.00	0.	*	1	1450	179	.00	.00	.00	0.
1	0225	30	.01	.01	.00	1.	*	1	1455	180	.00	.00	.00	0.
1	0230	31	.01	.01	.00	1.	*	1	1500	181	.00	.00	.00	0.
1	0235	32	.01	.01	.00	1.	*	1	1505	182	.00	.00	.00	0.
1	0240	33	.01	.01	.00	1.	*	1	1510	183	.00	.00	.00	0.
1	0245	34	.01	.01	.00	1.	*	1	1515	184	.00	.00	.00	0.
1	0250	35	.01	.01	.00	1.	*	1	1520	185	.00	.00	.00	0.
1	0255	36	.01	.01	.00	1.	*	1	1525	186	.00	.00	.00	0.
1	0300	37	.01	.01	.00	1.	*	1	1530	187	.00	.00	.00	0.
1	0305	38	.01	.01	.00	1.	*	1	1535	188	.00	.00	.00	0.
1	0310	39	.01	.01	.00	1.	*	1	1540	189	.00	.00	.00	0.
1	0315	40	.01	.01	.00	1.	*	1	1545	190	.00	.00	.00	0.
1	0320	41	.05	.04	.02	1.	*	1	1550	191	.00	.00	.00	0.
1	0325	42	.05	.04	.02	1.	*	1	1555	192	.00	.00	.00	0.
1	0330	43	.05	.04	.02	2.	*	1	1600	193	.00	.00	.00	0.
1	0335	44	.11	.07	.03	2.	*	1	1605	194	.00	.00	.00	0.
1	0340	45	.11	.07	.03	3.	*	1	1610	195	.00	.00	.00	0.
1	0345	46	.11	.07	.03	4.	*	1	1615	196	.00	.00	.00	0.
1	0350	47	.30	.10	.20	5.	*	1	1620	197	.00	.00	.00	0.
1	0355	48	.30	.08	.22	9.	*	1	1625	198	.00	.00	.00	0.
1	0400	49	.30	.07	.23	15.	*	1	1630	199	.00	.00	.00	0.
1	0405	50	.05	.04	.02	21.	*	1	1635	200	.00	.00	.00	0.
1	0410	51	.05	.04	.02	25.	*	1	1640	201	.00	.00	.00	0.
1	0415	52	.05	.04	.02	25.	*	1	1645	202	.00	.00	.00	0.
1	0420	53	.01	.01	.00	23.	*	1	1650	203	.00	.00	.00	0.
1	0425	54	.01	.01	.00	21.	*	1	1655	204	.00	.00	.00	0.
1	0430	55	.01	.01	.00	18.	*	1	1700	205	.00	.00	.00	0.
1	0435	56	.01	.01	.00	15.	*	1	1705	206	.00	.00	.00	0.
1	0440	57	.01	.01	.00	13.	*	1	1710	207	.00	.00	.00	0.
1	0445	58	.01	.01	.00	11.	*	1	1715	208	.00	.00	.00	0.
1	0450	59	.01	.01	.00	10.	*	1	1720	209	.00	.00	.00	0.

1	0455	60	.01	.01	.00	8.	*	1	1725	210	.00	.00	.00	0.
1	0500	61	.01	.01	.00	7.	*	1	1730	211	.00	.00	.00	0.
1	0505	62	.01	.01	.00	6.	*	1	1735	212	.00	.00	.00	0.
1	0510	63	.01	.01	.00	5.	*	1	1740	213	.00	.00	.00	0.
1	0515	64	.01	.01	.00	4.	*	1	1745	214	.00	.00	.00	0.
1	0520	65	.01	.00	.00	4.	*	1	1750	215	.00	.00	.00	0.
1	0525	66	.01	.00	.00	3.	*	1	1755	216	.00	.00	.00	0.
1	0530	67	.01	.00	.00	3.	*	1	1800	217	.00	.00	.00	0.
1	0535	68	.01	.00	.00	3.	*	1	1805	218	.00	.00	.00	0.
1	0540	69	.01	.00	.00	2.	*	1	1810	219	.00	.00	.00	0.
1	0545	70	.01	.00	.00	2.	*	1	1815	220	.00	.00	.00	0.
1	0550	71	.01	.00	.00	2.	*	1	1820	221	.00	.00	.00	0.
1	0555	72	.01	.00	.00	2.	*	1	1825	222	.00	.00	.00	0.
1	0600	73	.01	.00	.00	1.	*	1	1830	223	.00	.00	.00	0.
1	0605	74	.00	.00	.00	1.	*	1	1835	224	.00	.00	.00	0.
1	0610	75	.00	.00	.00	1.	*	1	1840	225	.00	.00	.00	0.
1	0615	76	.00	.00	.00	1.	*	1	1845	226	.00	.00	.00	0.
1	0620	77	.00	.00	.00	1.	*	1	1850	227	.00	.00	.00	0.
1	0625	78	.00	.00	.00	1.	*	1	1855	228	.00	.00	.00	0.
1	0630	79	.00	.00	.00	1.	*	1	1900	229	.00	.00	.00	0.
1	0635	80	.00	.00	.00	0.	*	1	1905	230	.00	.00	.00	0.
1	0640	81	.00	.00	.00	0.	*	1	1910	231	.00	.00	.00	0.
1	0645	82	.00	.00	.00	0.	*	1	1915	232	.00	.00	.00	0.
1	0650	83	.00	.00	.00	0.	*	1	1920	233	.00	.00	.00	0.
1	0655	84	.00	.00	.00	0.	*	1	1925	234	.00	.00	.00	0.
1	0700	85	.00	.00	.00	0.	*	1	1930	235	.00	.00	.00	0.
1	0705	86	.00	.00	.00	0.	*	1	1935	236	.00	.00	.00	0.
1	0710	87	.00	.00	.00	0.	*	1	1940	237	.00	.00	.00	0.
1	0715	88	.00	.00	.00	0.	*	1	1945	238	.00	.00	.00	0.
1	0720	89	.00	.00	.00	0.	*	1	1950	239	.00	.00	.00	0.
1	0725	90	.00	.00	.00	0.	*	1	1955	240	.00	.00	.00	0.
1	0730	91	.00	.00	.00	0.	*	1	2000	241	.00	.00	.00	0.
1	0735	92	.00	.00	.00	0.	*	1	2005	242	.00	.00	.00	0.
1	0740	93	.00	.00	.00	0.	*	1	2010	243	.00	.00	.00	0.
1	0745	94	.00	.00	.00	0.	*	1	2015	244	.00	.00	.00	0.
1	0750	95	.00	.00	.00	0.	*	1	2020	245	.00	.00	.00	0.
1	0755	96	.00	.00	.00	0.	*	1	2025	246	.00	.00	.00	0.
1	0800	97	.00	.00	.00	0.	*	1	2030	247	.00	.00	.00	0.
1	0805	98	.00	.00	.00	0.	*	1	2035	248	.00	.00	.00	0.
1	0810	99	.00	.00	.00	0.	*	1	2040	249	.00	.00	.00	0.
1	0815	100	.00	.00	.00	0.	*	1	2045	250	.00	.00	.00	0.
1	0820	101	.00	.00	.00	0.	*	1	2050	251	.00	.00	.00	0.
1	0825	102	.00	.00	.00	0.	*	1	2055	252	.00	.00	.00	0.
1	0830	103	.00	.00	.00	0.	*	1	2100	253	.00	.00	.00	0.
1	0835	104	.00	.00	.00	0.	*	1	2105	254	.00	.00	.00	0.
1	0840	105	.00	.00	.00	0.	*	1	2110	255	.00	.00	.00	0.
1	0845	106	.00	.00	.00	0.	*	1	2115	256	.00	.00	.00	0.
1	0850	107	.00	.00	.00	0.	*	1	2120	257	.00	.00	.00	0.
1	0855	108	.00	.00	.00	0.	*	1	2125	258	.00	.00	.00	0.
1	0900	109	.00	.00	.00	0.	*	1	2130	259	.00	.00	.00	0.
1	0905	110	.00	.00	.00	0.	*	1	2135	260	.00	.00	.00	0.
1	0910	111	.00	.00	.00	0.	*	1	2140	261	.00	.00	.00	0.
1	0915	112	.00	.00	.00	0.	*	1	2145	262	.00	.00	.00	0.
1	0920	113	.00	.00	.00	0.	*	1	2150	263	.00	.00	.00	0.
1	0925	114	.00	.00	.00	0.	*	1	2155	264	.00	.00	.00	0.
1	0930	115	.00	.00	.00	0.	*	1	2200	265	.00	.00	.00	0.
1	0935	116	.00	.00	.00	0.	*	1	2205	266	.00	.00	.00	0.
1	0940	117	.00	.00	.00	0.	*	1	2210	267	.00	.00	.00	0.

1	0945	118	.00	.00	.00	0.	*	1	2215	268	.00	.00	.00	0.
1	0950	119	.00	.00	.00	0.	*	1	2220	269	.00	.00	.00	0.
1	0955	120	.00	.00	.00	0.	*	1	2225	270	.00	.00	.00	0.
1	1000	121	.00	.00	.00	0.	*	1	2230	271	.00	.00	.00	0.
1	1005	122	.00	.00	.00	0.	*	1	2235	272	.00	.00	.00	0.
1	1010	123	.00	.00	.00	0.	*	1	2240	273	.00	.00	.00	0.
1	1015	124	.00	.00	.00	0.	*	1	2245	274	.00	.00	.00	0.
1	1020	125	.00	.00	.00	0.	*	1	2250	275	.00	.00	.00	0.
1	1025	126	.00	.00	.00	0.	*	1	2255	276	.00	.00	.00	0.
1	1030	127	.00	.00	.00	0.	*	1	2300	277	.00	.00	.00	0.
1	1035	128	.00	.00	.00	0.	*	1	2305	278	.00	.00	.00	0.
1	1040	129	.00	.00	.00	0.	*	1	2310	279	.00	.00	.00	0.
1	1045	130	.00	.00	.00	0.	*	1	2315	280	.00	.00	.00	0.
1	1050	131	.00	.00	.00	0.	*	1	2320	281	.00	.00	.00	0.
1	1055	132	.00	.00	.00	0.	*	1	2325	282	.00	.00	.00	0.
1	1100	133	.00	.00	.00	0.	*	1	2330	283	.00	.00	.00	0.
1	1105	134	.00	.00	.00	0.	*	1	2335	284	.00	.00	.00	0.
1	1110	135	.00	.00	.00	0.	*	1	2340	285	.00	.00	.00	0.
1	1115	136	.00	.00	.00	0.	*	1	2345	286	.00	.00	.00	0.
1	1120	137	.00	.00	.00	0.	*	1	2350	287	.00	.00	.00	0.
1	1125	138	.00	.00	.00	0.	*	1	2355	288	.00	.00	.00	0.
1	1130	139	.00	.00	.00	0.	*	2	0000	289	.00	.00	.00	0.
1	1135	140	.00	.00	.00	0.	*	2	0005	290	.00	.00	.00	0.
1	1140	141	.00	.00	.00	0.	*	2	0010	291	.00	.00	.00	0.
1	1145	142	.00	.00	.00	0.	*	2	0015	292	.00	.00	.00	0.
1	1150	143	.00	.00	.00	0.	*	2	0020	293	.00	.00	.00	0.
1	1155	144	.00	.00	.00	0.	*	2	0025	294	.00	.00	.00	0.
1	1200	145	.00	.00	.00	0.	*	2	0030	295	.00	.00	.00	0.
1	1205	146	.00	.00	.00	0.	*	2	0035	296	.00	.00	.00	0.
1	1210	147	.00	.00	.00	0.	*	2	0040	297	.00	.00	.00	0.
1	1215	148	.00	.00	.00	0.	*	2	0045	298	.00	.00	.00	0.
1	1220	149	.00	.00	.00	0.	*	2	0050	299	.00	.00	.00	0.
1	1225	150	.00	.00	.00	0.	*	2	0055	300	.00	.00	.00	0.
							*							

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TOTAL RAINFALL = 1.99, TOTAL LOSS = 1.01, TOTAL EXCESS = .98

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
25.	4.25		4.	1.	1.	1.
		(INCHES)	.968	.975	.975	.975
		(AC-FT)	2.	2.	2.	2.

CUMULATIVE AREA = .04 SQ MI

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          **************
          *            *
45 KK     *   Node7    *
          *            *
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                    Route flow through basin to remove developed area storage

52 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          2  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL         0.  HYDROGRAPH PLOT SCALE

             HYDROGRAPH ROUTING DATA

47 RS          STORAGE ROUTING
                     NSTPS          1  NUMBER OF SUBREACHES
                      ITYP       STOR  TYPE OF INITIAL CONDITION
                    RSVRIC        .00  INITIAL CONDITION
                         X        .00 WORKING R AND D COEFFICIENT

48 SV            STORAGE         .0       2.1       2.2       2.2       2.2       2.2       2.2       2.2       2.3       2.5
                                2.8

50 SQ          DISCHARGE         0.        0.       20.       30.       40.       50.       60.       70.      100.      150.
                               200.

                                                          ***

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN        0. TO      100.
                THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
                THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

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HYDROGRAPH AT STATION Node7

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE
1		0000	1	0.	.00	1		0820	101	0.	2.08	1		1640	201	0.	2.08
1		0005	2	0.	.00	1		0825	102	0.	2.08	1		1645	202	0.	2.08
1		0010	3	0.	.00	1		0830	103	0.	2.08	1		1650	203	0.	2.08
1		0015	4	0.	.00	1		0835	104	0.	2.08	1		1655	204	0.	2.08
1		0020	5	0.	.00	1		0840	105	0.	2.08	1		1700	205	0.	2.08
1		0025	6	0.	.00	1		0845	106	0.	2.08	1		1705	206	0.	2.08
1		0030	7	0.	.00	1		0850	107	0.	2.08	1		1710	207	0.	2.08
1		0035	8	0.	.01	1		0855	108	0.	2.08	1		1715	208	0.	2.08
1		0040	9	0.	.01	1		0900	109	0.	2.08	1		1720	209	0.	2.08
1		0045	10	0.	.01	1		0905	110	0.	2.08	1		1725	210	0.	2.08
1		0050	11	0.	.01	1		0910	111	0.	2.08	1		1730	211	0.	2.08
1		0055	12	0.	.02	1		0915	112	0.	2.08	1		1735	212	0.	2.08
1		0100	13	0.	.02	1		0920	113	0.	2.08	1		1740	213	0.	2.08
1		0105	14	0.	.02	1		0925	114	0.	2.08	1		1745	214	0.	2.08
1		0110	15	0.	.02	1		0930	115	0.	2.08	1		1750	215	0.	2.08
1		0115	16	0.	.03	1		0935	116	0.	2.08	1		1755	216	0.	2.08
1		0120	17	0.	.03	1		0940	117	0.	2.08	1		1800	217	0.	2.08
1		0125	18	0.	.03	1		0945	118	0.	2.08	1		1805	218	0.	2.08
1		0130	19	0.	.04	1		0950	119	0.	2.08	1		1810	219	0.	2.08
1		0135	20	0.	.04	1		0955	120	0.	2.08	1		1815	220	0.	2.08
1		0140	21	0.	.04	1		1000	121	0.	2.08	1		1820	221	0.	2.08
1		0145	22	0.	.05	1		1005	122	0.	2.08	1		1825	222	0.	2.08

1	0150	23	0.	.05	*	1	1010	123	0.	2.08	*	1	1830	223	0.	2.08
1	0155	24	0.	.05	*	1	1015	124	0.	2.08	*	1	1835	224	0.	2.08
1	0200	25	0.	.06	*	1	1020	125	0.	2.08	*	1	1840	225	0.	2.08
1	0205	26	0.	.06	*	1	1025	126	0.	2.08	*	1	1845	226	0.	2.08
1	0210	27	0.	.06	*	1	1030	127	0.	2.08	*	1	1850	227	0.	2.08
1	0215	28	0.	.07	*	1	1035	128	0.	2.08	*	1	1855	228	0.	2.08
1	0220	29	0.	.07	*	1	1040	129	0.	2.08	*	1	1900	229	0.	2.08
1	0225	30	0.	.07	*	1	1045	130	0.	2.08	*	1	1905	230	0.	2.08
1	0230	31	0.	.08	*	1	1050	131	0.	2.08	*	1	1910	231	0.	2.08
1	0235	32	0.	.08	*	1	1055	132	0.	2.08	*	1	1915	232	0.	2.08
1	0240	33	0.	.09	*	1	1100	133	0.	2.08	*	1	1920	233	0.	2.08
1	0245	34	0.	.09	*	1	1105	134	0.	2.08	*	1	1925	234	0.	2.08
1	0250	35	0.	.09	*	1	1110	135	0.	2.08	*	1	1930	235	0.	2.08
1	0255	36	0.	.10	*	1	1115	136	0.	2.08	*	1	1935	236	0.	2.08
1	0300	37	0.	.10	*	1	1120	137	0.	2.08	*	1	1940	237	0.	2.08
1	0305	38	0.	.11	*	1	1125	138	0.	2.08	*	1	1945	238	0.	2.08
1	0310	39	0.	.12	*	1	1130	139	0.	2.08	*	1	1950	239	0.	2.08
1	0315	40	0.	.12	*	1	1135	140	0.	2.08	*	1	1955	240	0.	2.08
1	0320	41	0.	.13	*	1	1140	141	0.	2.08	*	1	2000	241	0.	2.08
1	0325	42	0.	.14	*	1	1145	142	0.	2.08	*	1	2005	242	0.	2.08
1	0330	43	0.	.15	*	1	1150	143	0.	2.08	*	1	2010	243	0.	2.08
1	0335	44	0.	.16	*	1	1155	144	0.	2.08	*	1	2015	244	0.	2.08
1	0340	45	0.	.18	*	1	1200	145	0.	2.08	*	1	2020	245	0.	2.08
1	0345	46	0.	.20	*	1	1205	146	0.	2.08	*	1	2025	246	0.	2.08
1	0350	47	0.	.23	*	1	1210	147	0.	2.08	*	1	2030	247	0.	2.08
1	0355	48	0.	.28	*	1	1215	148	0.	2.08	*	1	2035	248	0.	2.08
1	0400	49	0.	.36	*	1	1220	149	0.	2.08	*	1	2040	249	0.	2.08
1	0405	50	0.	.48	*	1	1225	150	0.	2.08	*	1	2045	250	0.	2.08
1	0410	51	0.	.64	*	1	1230	151	0.	2.08	*	1	2050	251	0.	2.08
1	0415	52	0.	.82	*	1	1235	152	0.	2.08	*	1	2055	252	0.	2.08
1	0420	53	0.	.98	*	1	1240	153	0.	2.08	*	1	2100	253	0.	2.08
1	0425	54	0.	1.13	*	1	1245	154	0.	2.08	*	1	2105	254	0.	2.08
1	0430	55	0.	1.27	*	1	1250	155	0.	2.08	*	1	2110	255	0.	2.08
1	0435	56	0.	1.38	*	1	1255	156	0.	2.08	*	1	2115	256	0.	2.08
1	0440	57	0.	1.48	*	1	1300	157	0.	2.08	*	1	2120	257	0.	2.08
1	0445	58	0.	1.57	*	1	1305	158	0.	2.08	*	1	2125	258	0.	2.08
1	0450	59	0.	1.64	*	1	1310	159	0.	2.08	*	1	2130	259	0.	2.08
1	0455	60	0.	1.70	*	1	1315	160	0.	2.08	*	1	2135	260	0.	2.08
1	0500	61	0.	1.75	*	1	1320	161	0.	2.08	*	1	2140	261	0.	2.08
1	0505	62	0.	1.80	*	1	1325	162	0.	2.08	*	1	2145	262	0.	2.08
1	0510	63	0.	1.84	*	1	1330	163	0.	2.08	*	1	2150	263	0.	2.08
1	0515	64	0.	1.87	*	1	1335	164	0.	2.08	*	1	2155	264	0.	2.08
1	0520	65	0.	1.90	*	1	1340	165	0.	2.08	*	1	2200	265	0.	2.08
1	0525	66	0.	1.92	*	1	1345	166	0.	2.08	*	1	2205	266	0.	2.08
1	0530	67	0.	1.94	*	1	1350	167	0.	2.08	*	1	2210	267	0.	2.08
1	0535	68	0.	1.96	*	1	1355	168	0.	2.08	*	1	2215	268	0.	2.08
1	0540	69	0.	1.98	*	1	1400	169	0.	2.08	*	1	2220	269	0.	2.08
1	0545	70	0.	1.99	*	1	1405	170	0.	2.08	*	1	2225	270	0.	2.08
1	0550	71	0.	2.01	*	1	1410	171	0.	2.08	*	1	2230	271	0.	2.08
1	0555	72	0.	2.02	*	1	1415	172	0.	2.08	*	1	2235	272	0.	2.08
1	0600	73	0.	2.03	*	1	1420	173	0.	2.08	*	1	2240	273	0.	2.08
1	0605	74	0.	2.04	*	1	1425	174	0.	2.08	*	1	2245	274	0.	2.08
1	0610	75	0.	2.04	*	1	1430	175	0.	2.08	*	1	2250	275	0.	2.08
1	0615	76	0.	2.05	*	1	1435	176	0.	2.08	*	1	2255	276	0.	2.08
1	0620	77	0.	2.06	*	1	1440	177	0.	2.08	*	1	2300	277	0.	2.08
1	0625	78	0.	2.06	*	1	1445	178	0.	2.08	*	1	2305	278	0.	2.08
1	0630	79	0.	2.07	*	1	1450	179	0.	2.08	*	1	2310	279	0.	2.08
1	0635	80	0.	2.07	*	1	1455	180	0.	2.08	*	1	2315	280	0.	2.08

1	0640	81	0.	2.07	*	1	1500	181	0.	2.08	*	1	2320	281	0.	2.08
1	0645	82	0.	2.07	*	1	1505	182	0.	2.08	*	1	2325	282	0.	2.08
1	0650	83	0.	2.07	*	1	1510	183	0.	2.08	*	1	2330	283	0.	2.08
1	0655	84	0.	2.08	*	1	1515	184	0.	2.08	*	1	2335	284	0.	2.08
1	0700	85	0.	2.08	*	1	1520	185	0.	2.08	*	1	2340	285	0.	2.08
1	0705	86	0.	2.08	*	1	1525	186	0.	2.08	*	1	2345	286	0.	2.08
1	0710	87	0.	2.08	*	1	1530	187	0.	2.08	*	1	2350	287	0.	2.08
1	0715	88	0.	2.08	*	1	1535	188	0.	2.08	*	1	2355	288	0.	2.08
1	0720	89	0.	2.08	*	1	1540	189	0.	2.08	*	2	0000	289	0.	2.08
1	0725	90	0.	2.08	*	1	1545	190	0.	2.08	*	2	0005	290	0.	2.08
1	0730	91	0.	2.08	*	1	1550	191	0.	2.08	*	2	0010	291	0.	2.08
1	0735	92	0.	2.08	*	1	1555	192	0.	2.08	*	2	0015	292	0.	2.08
1	0740	93	0.	2.08	*	1	1600	193	0.	2.08	*	2	0020	293	0.	2.08
1	0745	94	0.	2.08	*	1	1605	194	0.	2.08	*	2	0025	294	0.	2.08
1	0750	95	0.	2.08	*	1	1610	195	0.	2.08	*	2	0030	295	0.	2.08
1	0755	96	0.	2.08	*	1	1615	196	0.	2.08	*	2	0035	296	0.	2.08
1	0800	97	0.	2.08	*	1	1620	197	0.	2.08	*	2	0040	297	0.	2.08
1	0805	98	0.	2.08	*	1	1625	198	0.	2.08	*	2	0045	298	0.	2.08
1	0810	99	0.	2.08	*	1	1630	199	0.	2.08	*	2	0050	299	0.	2.08
1	0815	100	0.	2.08	*	1	1635	200	0.	2.08	*	2	0055	300	0.	2.08
					*						*					

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 PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                     6-HR       24-HR       72-HR     24.92-HR
  (CFS)       (HR)
                          (CFS)
     0.        .08                     0.          0.          0.          0.
                        (INCHES)      .000        .000        .000        .000
                         (AC-FT)        0.          0.          0.          0.

PEAK STORAGE   TIME                        MAXIMUM AVERAGE STORAGE
                                     6-HR       24-HR       72-HR     24.92-HR
 (AC-FT)      (HR)
      2.      7.58                     2.          2.          2.          2.

                        CUMULATIVE AREA =     .04 SQ MI
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          **************
          *            *
 53 KK    *    Node11  *
          *            *
          **************
                    conflunce g1 and g2

 56 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          2  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL         0.  HYDROGRAPH PLOT SCALE

 55 HC          HYDROGRAPH COMBINATION
                     ICOMP          2  NUMBER OF HYDROGRAPHS TO COMBINE
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HYDROGRAPH AT STATION Node11
SUM OF 2 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	31.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	28.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	26.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	24.	1		1245	154	0.	1		1900	229	0.
1		0020	5	0.	1		0635	80	22.	1		1250	155	0.	1		1905	230	0.
1		0025	6	0.	1		0640	81	21.	1		1255	156	0.	1		1910	231	0.
1		0030	7	0.	1		0645	82	19.	1		1300	157	0.	1		1915	232	0.
1		0035	8	0.	1		0650	83	18.	1		1305	158	0.	1		1920	233	0.
1		0040	9	0.	1		0655	84	16.	1		1310	159	0.	1		1925	234	0.
1		0045	10	0.	1		0700	85	15.	1		1315	160	0.	1		1930	235	0.
1		0050	11	0.	1		0705	86	14.	1		1320	161	0.	1		1935	236	0.
1		0055	12	0.	1		0710	87	13.	1		1325	162	0.	1		1940	237	0.
1		0100	13	0.	1		0715	88	12.	1		1330	163	0.	1		1945	238	0.
1		0105	14	0.	1		0720	89	11.	1		1335	164	0.	1		1950	239	0.
1		0110	15	0.	1		0725	90	10.	1		1340	165	0.	1		1955	240	0.
1		0115	16	0.	1		0730	91	9.	1		1345	166	0.	1		2000	241	0.
1		0120	17	1.	1		0735	92	8.	1		1350	167	0.	1		2005	242	0.
1		0125	18	1.	1		0740	93	8.	1		1355	168	0.	1		2010	243	0.
1		0130	19	1.	1		0745	94	7.	1		1400	169	0.	1		2015	244	0.
1		0135	20	1.	1		0750	95	6.	1		1405	170	0.	1		2020	245	0.
1		0140	21	1.	1		0755	96	6.	1		1410	171	0.	1		2025	246	0.
1		0145	22	1.	1		0800	97	6.	1		1415	172	0.	1		2030	247	0.
1		0150	23	1.	1		0805	98	5.	1		1420	173	0.	1		2035	248	0.
1		0155	24	1.	1		0810	99	5.	1		1425	174	0.	1		2040	249	0.
1		0200	25	1.	1		0815	100	5.	1		1430	175	0.	1		2045	250	0.
1		0205	26	1.	1		0820	101	4.	1		1435	176	0.	1		2050	251	0.
1		0210	27	1.	1		0825	102	4.	1		1440	177	0.	1		2055	252	0.
1		0215	28	1.	1		0830	103	4.	1		1445	178	0.	1		2100	253	0.
1		0220	29	1.	1		0835	104	3.	1		1450	179	0.	1		2105	254	0.
1		0225	30	1.	1		0840	105	3.	1		1455	180	0.	1		2110	255	0.
1		0230	31	1.	1		0845	106	3.	1		1500	181	0.	1		2115	256	0.
1		0235	32	1.	1		0850	107	3.	1		1505	182	0.	1		2120	257	0.
1		0240	33	1.	1		0855	108	2.	1		1510	183	0.	1		2125	258	0.
1		0245	34	1.	1		0900	109	2.	1		1515	184	0.	1		2130	259	0.
1		0250	35	1.	1		0905	110	2.	1		1520	185	0.	1		2135	260	0.
1		0255	36	1.	1		0910	111	2.	1		1525	186	0.	1		2140	261	0.
1		0300	37	1.	1		0915	112	2.	1		1530	187	0.	1		2145	262	0.
1		0305	38	1.	1		0920	113	2.	1		1535	188	0.	1		2150	263	0.
1		0310	39	1.	1		0925	114	1.	1		1540	189	0.	1		2155	264	0.
1		0315	40	1.	1		0930	115	1.	1		1545	190	0.	1		2200	265	0.
1		0320	41	1.	1		0935	116	1.	1		1550	191	0.	1		2205	266	0.
1		0325	42	1.	1		0940	117	1.	1		1555	192	0.	1		2210	267	0.
1		0330	43	2.	1		0945	118	1.	1		1600	193	0.	1		2215	268	0.
1		0335	44	2.	1		0950	119	1.	1		1605	194	0.	1		2220	269	0.
1		0340	45	2.	1		0955	120	0.	1		1610	195	0.	1		2225	270	0.
1		0345	46	2.	1		1000	121	0.	1		1615	196	0.	1		2230	271	0.

1	0350	47	3.	*	1	1005	122	0.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	4.	*	1	1010	123	0.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	6.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	12.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	21.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	32.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	45.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	64.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	80.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	91.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	96.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	97.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	95.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	93.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	90.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	87.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	83.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	78.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	74.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	69.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	64.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	59.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	54.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	50.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	46.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	43.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	39.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	36.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	33.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

****

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
97.	4.75		28.	7.	7.	7.
		(INCHES)	.578	.588	.588	.588
		(AC-FT)	14.	14.	14.	14.

CUMULATIVE AREA = .45 SQ MI

*** ***

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          **************
          *            *
57 KK     *   Node10   *
          *            *
          **************
```

Route water from culverts to middle of subdivision

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63 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          2  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
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                    QSCAL          0.  HYDROGRAPH PLOT SCALE

            HYDROGRAPH ROUTING DATA

 59 RS        STORAGE ROUTING
                    NSTPS           1  NUMBER OF SUBREACHES
                     ITYP        STOR  TYPE OF INITIAL CONDITION
                   RSVRIC         .00  INITIAL CONDITION
                        X         .00 WORKING R AND D COEFFICIENT

 60 RC        NORMAL DEPTH CHANNEL
                      ANL        .035  LEFT OVERBANK N-VALUE
                     ANCH        .035  MAIN CHANNEL N-VALUE
                      ANR        .035  RIGHT OVERBANK N-VALUE
                    RLNTH        650.  REACH LENGTH
                      SEL       .0022  ENERGY SLOPE
                    ELMAX        15.0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                   CROSS-SECTION DATA
                      --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
 62 RY      ELEVATION    15.00     11.00     10.00      5.85      5.85     10.00     11.00     15.00
 61 RX      DISTANCE       .00     20.00    120.00    136.60    146.60    162.20    262.20    282.20

                                                  ***

                                   COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

          STORAGE       .00       .09       .20       .34       .50       .69       .91      1.16      1.43      1.78
          OUTFLOW       .00      6.32     21.74     46.35     81.01    126.67    184.32    254.90    339.36    449.06
        ELEVATION      5.85      6.33      6.81      7.29      7.78      8.26      8.74      9.22      9.70     10.18

          STORAGE      2.70      4.27      6.04      7.84      9.68     11.55     13.46     15.40     17.38     19.39
          OUTFLOW    628.29    931.10   1390.33   1963.47   2640.18   3413.96   4280.30   5235.91   6278.27   7405.46
        ELEVATION     10.67     11.15     11.63     12.11     12.59     13.07     13.56     14.04     14.52     15.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN      255. TO     7405.
                THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
                THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

*****************************************************************************************************************

                                   HYDROGRAPH AT STATION   Node10

*****************************************************************************************************************
                                        *                                        *
 DA MON HRMN ORD  OUTFLOW  STORAGE  STAGE * DA MON HRMN ORD  OUTFLOW  STORAGE  STAGE * DA MON HRMN ORD  OUTFLOW  STORAGE  STAGE
                                        *                                        *
  1    0000   1      0.       .0    5.8 *  1    0820 101      5.       .1    6.2 *  1    1640 201      0.       .0    5.8
  1    0005   2      0.       .0    5.9 *  1    0825 102      5.       .1    6.2 *  1    1645 202      0.       .0    5.8
  1    0010   3      0.       .0    5.9 *  1    0830 103      4.       .1    6.2 *  1    1650 203      0.       .0    5.8
  1    0015   4      0.       .0    5.9 *  1    0835 104      4.       .1    6.1 *  1    1655 204      0.       .0    5.8
  1    0020   5      0.       .0    5.9 *  1    0840 105      4.       .0    6.1 *  1    1700 205      0.       .0    5.8
  1    0025   6      0.       .0    5.9 *  1    0845 106      3.       .0    6.1 *  1    1705 206      0.       .0    5.8
  1    0030   7      0.       .0    5.9 *  1    0850 107      3.       .0    6.1 *  1    1710 207      0.       .0    5.8
  1    0035   8      0.       .0    5.9 *  1    0855 108      3.       .0    6.1 *  1    1715 208      0.       .0    5.8
  1    0040   9      0.       .0    5.9 *  1    0900 109      3.       .0    6.0 *  1    1720 209      0.       .0    5.8
  1    0045  10      0.       .0    5.9 *  1    0905 110      2.       .0    6.0 *  1    1725 210      0.       .0    5.8
```

1	0050	11	0.	.0	5.9	*	1	0910	111	2.	.0	6.0	*	1	1730	211	0.	.0	5.8
1	0055	12	0.	.0	5.9	*	1	0915	112	2.	.0	6.0	*	1	1735	212	0.	.0	5.8
1	0100	13	0.	.0	5.9	*	1	0920	113	2.	.0	6.0	*	1	1740	213	0.	.0	5.8
1	0105	14	0.	.0	5.9	*	1	0925	114	2.	.0	6.0	*	1	1745	214	0.	.0	5.8
1	0110	15	0.	.0	5.9	*	1	0930	115	2.	.0	6.0	*	1	1750	215	0.	.0	5.8
1	0115	16	0.	.0	5.9	*	1	0935	116	1.	.0	6.0	*	1	1755	216	0.	.0	5.8
1	0120	17	0.	.0	5.9	*	1	0940	117	1.	.0	5.9	*	1	1800	217	0.	.0	5.8
1	0125	18	0.	.0	5.9	*	1	0945	118	1.	.0	5.9	*	1	1805	218	0.	.0	5.8
1	0130	19	1.	.0	5.9	*	1	0950	119	1.	.0	5.9	*	1	1810	219	0.	.0	5.8
1	0135	20	1.	.0	5.9	*	1	0955	120	1.	.0	5.9	*	1	1815	220	0.	.0	5.8
1	0140	21	1.	.0	5.9	*	1	1000	121	1.	.0	5.9	*	1	1820	221	0.	.0	5.8
1	0145	22	1.	.0	5.9	*	1	1005	122	0.	.0	5.9	*	1	1825	222	0.	.0	5.8
1	0150	23	1.	.0	5.9	*	1	1010	123	0.	.0	5.9	*	1	1830	223	0.	.0	5.8
1	0155	24	1.	.0	5.9	*	1	1015	124	0.	.0	5.9	*	1	1835	224	0.	.0	5.8
1	0200	25	1.	.0	5.9	*	1	1020	125	0.	.0	5.9	*	1	1840	225	0.	.0	5.8
1	0205	26	1.	.0	5.9	*	1	1025	126	0.	.0	5.9	*	1	1845	226	0.	.0	5.8
1	0210	27	1.	.0	5.9	*	1	1030	127	0.	.0	5.9	*	1	1850	227	0.	.0	5.8
1	0215	28	1.	.0	5.9	*	1	1035	128	0.	.0	5.9	*	1	1855	228	0.	.0	5.8
1	0220	29	1.	.0	5.9	*	1	1040	129	0.	.0	5.9	*	1	1900	229	0.	.0	5.8
1	0225	30	1.	.0	5.9	*	1	1045	130	0.	.0	5.9	*	1	1905	230	0.	.0	5.8
1	0230	31	1.	.0	5.9	*	1	1050	131	0.	.0	5.9	*	1	1910	231	0.	.0	5.8
1	0235	32	1.	.0	5.9	*	1	1055	132	0.	.0	5.9	*	1	1915	232	0.	.0	5.8
1	0240	33	1.	.0	5.9	*	1	1100	133	0.	.0	5.9	*	1	1920	233	0.	.0	5.8
1	0245	34	1.	.0	5.9	*	1	1105	134	0.	.0	5.9	*	1	1925	234	0.	.0	5.8
1	0250	35	1.	.0	5.9	*	1	1110	135	0.	.0	5.9	*	1	1930	235	0.	.0	5.8
1	0255	36	1.	.0	5.9	*	1	1115	136	0.	.0	5.9	*	1	1935	236	0.	.0	5.8
1	0300	37	1.	.0	5.9	*	1	1120	137	0.	.0	5.9	*	1	1940	237	0.	.0	5.8
1	0305	38	1.	.0	5.9	*	1	1125	138	0.	.0	5.9	*	1	1945	238	0.	.0	5.8
1	0310	39	1.	.0	5.9	*	1	1130	139	0.	.0	5.9	*	1	1950	239	0.	.0	5.8
1	0315	40	1.	.0	5.9	*	1	1135	140	0.	.0	5.9	*	1	1955	240	0.	.0	5.8
1	0320	41	1.	.0	5.9	*	1	1140	141	0.	.0	5.9	*	1	2000	241	0.	.0	5.8
1	0325	42	1.	.0	6.0	*	1	1145	142	0.	.0	5.9	*	1	2005	242	0.	.0	5.8
1	0330	43	1.	.0	6.0	*	1	1150	143	0.	.0	5.9	*	1	2010	243	0.	.0	5.8
1	0335	44	2.	.0	6.0	*	1	1155	144	0.	.0	5.9	*	1	2015	244	0.	.0	5.8
1	0340	45	2.	.0	6.0	*	1	1200	145	0.	.0	5.9	*	1	2020	245	0.	.0	5.8
1	0345	46	2.	.0	6.0	*	1	1205	146	0.	.0	5.9	*	1	2025	246	0.	.0	5.8
1	0350	47	2.	.0	6.0	*	1	1210	147	0.	.0	5.9	*	1	2030	247	0.	.0	5.8
1	0355	48	3.	.0	6.0	*	1	1215	148	0.	.0	5.9	*	1	2035	248	0.	.0	5.8
1	0400	49	3.	.0	6.1	*	1	1220	149	0.	.0	5.9	*	1	2040	249	0.	.0	5.8
1	0405	50	6.	.1	6.3	*	1	1225	150	0.	.0	5.9	*	1	2045	250	0.	.0	5.8
1	0410	51	12.	.1	6.5	*	1	1230	151	0.	.0	5.9	*	1	2050	251	0.	.0	5.8
1	0415	52	21.	.2	6.8	*	1	1235	152	0.	.0	5.9	*	1	2055	252	0.	.0	5.8
1	0420	53	34.	.3	7.1	*	1	1240	153	0.	.0	5.9	*	1	2100	253	0.	.0	5.8
1	0425	54	50.	.4	7.3	*	1	1245	154	0.	.0	5.9	*	1	2105	254	0.	.0	5.8
1	0430	55	68.	.4	7.6	*	1	1250	155	0.	.0	5.9	*	1	2110	255	0.	.0	5.8
1	0435	56	83.	.5	7.8	*	1	1255	156	0.	.0	5.9	*	1	2115	256	0.	.0	5.8
1	0440	57	92.	.5	7.9	*	1	1300	157	0.	.0	5.9	*	1	2120	257	0.	.0	5.8
1	0445	58	96.	.6	7.9	*	1	1305	158	0.	.0	5.9	*	1	2125	258	0.	.0	5.8
1	0450	59	96.	.6	7.9	*	1	1310	159	0.	.0	5.9	*	1	2130	259	0.	.0	5.8
1	0455	60	95.	.6	7.9	*	1	1315	160	0.	.0	5.8	*	1	2135	260	0.	.0	5.8
1	0500	61	92.	.5	7.9	*	1	1320	161	0.	.0	5.8	*	1	2140	261	0.	.0	5.8
1	0505	62	89.	.5	7.9	*	1	1325	162	0.	.0	5.8	*	1	2145	262	0.	.0	5.8
1	0510	63	85.	.5	7.8	*	1	1330	163	0.	.0	5.8	*	1	2150	263	0.	.0	5.8
1	0515	64	81.	.5	7.8	*	1	1335	164	0.	.0	5.8	*	1	2155	264	0.	.0	5.8
1	0520	65	77.	.5	7.7	*	1	1340	165	0.	.0	5.8	*	1	2200	265	0.	.0	5.8
1	0525	66	72.	.5	7.7	*	1	1345	166	0.	.0	5.8	*	1	2205	266	0.	.0	5.8
1	0530	67	67.	.4	7.6	*	1	1350	167	0.	.0	5.8	*	1	2210	267	0.	.0	5.8
1	0535	68	62.	.4	7.5	*	1	1355	168	0.	.0	5.8	*	1	2215	268	0.	.0	5.8

1	0540	69	57.	.4	7.4	*	1	1400	169	0.	.0	5.8	*	1	2220	269	0.	.0	5.8
1	0545	70	53.	.4	7.4	*	1	1405	170	0.	.0	5.8	*	1	2225	270	0.	.0	5.8
1	0550	71	49.	.3	7.3	*	1	1410	171	0.	.0	5.8	*	1	2230	271	0.	.0	5.8
1	0555	72	45.	.3	7.3	*	1	1415	172	0.	.0	5.8	*	1	2235	272	0.	.0	5.8
1	0600	73	42.	.3	7.2	*	1	1420	173	0.	.0	5.8	*	1	2240	273	0.	.0	5.8
1	0605	74	39.	.3	7.1	*	1	1425	174	0.	.0	5.8	*	1	2245	274	0.	.0	5.8
1	0610	75	36.	.3	7.1	*	1	1430	175	0.	.0	5.8	*	1	2250	275	0.	.0	5.8
1	0615	76	33.	.3	7.0	*	1	1435	176	0.	.0	5.8	*	1	2255	276	0.	.0	5.8
1	0620	77	30.	.2	7.0	*	1	1440	177	0.	.0	5.8	*	1	2300	277	0.	.0	5.8
1	0625	78	28.	.2	6.9	*	1	1445	178	0.	.0	5.8	*	1	2305	278	0.	.0	5.8
1	0630	79	26.	.2	6.9	*	1	1450	179	0.	.0	5.8	*	1	2310	279	0.	.0	5.8
1	0635	80	24.	.2	6.8	*	1	1455	180	0.	.0	5.8	*	1	2315	280	0.	.0	5.8
1	0640	81	22.	.2	6.8	*	1	1500	181	0.	.0	5.8	*	1	2320	281	0.	.0	5.8
1	0645	82	20.	.2	6.8	*	1	1505	182	0.	.0	5.8	*	1	2325	282	0.	.0	5.8
1	0650	83	19.	.2	6.7	*	1	1510	183	0.	.0	5.8	*	1	2330	283	0.	.0	5.8
1	0655	84	18.	.2	6.7	*	1	1515	184	0.	.0	5.8	*	1	2335	284	0.	.0	5.8
1	0700	85	16.	.2	6.6	*	1	1520	185	0.	.0	5.8	*	1	2340	285	0.	.0	5.8
1	0705	86	15.	.1	6.6	*	1	1525	186	0.	.0	5.8	*	1	2345	286	0.	.0	5.8
1	0710	87	14.	.1	6.6	*	1	1530	187	0.	.0	5.8	*	1	2350	287	0.	.0	5.8
1	0715	88	13.	.1	6.5	*	1	1535	188	0.	.0	5.8	*	1	2355	288	0.	.0	5.8
1	0720	89	12.	.1	6.5	*	1	1540	189	0.	.0	5.8	*	2	0000	289	0.	.0	5.8
1	0725	90	11.	.1	6.5	*	1	1545	190	0.	.0	5.8	*	2	0005	290	0.	.0	5.8
1	0730	91	10.	.1	6.4	*	1	1550	191	0.	.0	5.8	*	2	0010	291	0.	.0	5.8
1	0735	92	9.	.1	6.4	*	1	1555	192	0.	.0	5.8	*	2	0015	292	0.	.0	5.8
1	0740	93	8.	.1	6.4	*	1	1600	193	0.	.0	5.8	*	2	0020	293	0.	.0	5.8
1	0745	94	8.	.1	6.4	*	1	1605	194	0.	.0	5.8	*	2	0025	294	0.	.0	5.8
1	0750	95	7.	.1	6.4	*	1	1610	195	0.	.0	5.8	*	2	0030	295	0.	.0	5.8
1	0755	96	6.	.1	6.3	*	1	1615	196	0.	.0	5.8	*	2	0035	296	0.	.0	5.8
1	0800	97	6.	.1	6.3	*	1	1620	197	0.	.0	5.8	*	2	0040	297	0.	.0	5.8
1	0805	98	6.	.1	6.3	*	1	1625	198	0.	.0	5.8	*	2	0045	298	0.	.0	5.8
1	0810	99	6.	.1	6.3	*	1	1630	199	0.	.0	5.8	*	2	0050	299	0.	.0	5.8
1	0815	100	5.	.1	6.2	*	1	1635	200	0.	.0	5.8	*	2	0055	300	0.	.0	5.8
						*							*						

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)					
		(CFS)				
96.	4.83		28.	7.	7.	7.
		(INCHES)	.578	.588	.588	.588
		(AC-FT)	14.	14.	14.	14.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
(AC-FT)	(HR)				
1.	4.75	0.	0.	0.	0.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
(FEET)	(HR)				
7.94	4.83	6.74	6.08	6.07	6.07

CUMULATIVE AREA = .45 SQ MI

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*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

          **************
          *            *
64 KK     *   DEVELO   *     PE RAINFALL FOR G3
          *            *
          **************
                          6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
                          THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
                         L =  .30  Kb = .072  Adj. Slope =   60.9

74 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          2  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL         0.  HYDROGRAPH PLOT SCALE

             SUBBASIN RUNOFF DATA

68 BA          SUBBASIN CHARACTERISTICS
                     TAREA        .01  SUBBASIN AREA

               PRECIPITATION DATA

69 PB                STORM       1.99  BASIN TOTAL PRECIPITATION

11 PI            INCREMENTAL PRECIPITATION PATTERN
                    .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                    .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                    .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                    .00      .00      .00      .01      .01      .01      .01      .01      .01      .03
                    .03      .03      .05      .05      .05      .15      .15      .15      .03      .03
                    .03      .01      .01      .01      .01      .01      .01      .00      .00      .00
                    .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                    .00      .00

70 LG          GREEN AND AMPT LOSS RATE
                     STRTL        .43  STARTING LOSS
                       DTH        .25  MOISTURE DEFICIT
                      PSIF       3.50  WETTING FRONT SUCTION
                     XKSAT        .51  HYDRAULIC CONDUCTIVITY
                     RTIMP      30.00  PERCENT IMPERVIOUS AREA

71 UC          CLARK UNITGRAPH
                        TC        .30  TIME OF CONCENTRATION
                         R        .50  STORAGE COEFFICIENT

72 UA          ACCUMULATED-AREA VS. TIME,  11 ORDINATES
                      .0       5.0      16.0      30.0      65.0      77.0      84.0      90.0      94.0      97.0
                   100.0

                                                   ***

                                          UNIT HYDROGRAPH PARAMETERS
                                     CLARK   TC=   .30 HR,       R=   .50 HR
                                    SNYDER   TP=   .24 HR,      CP=   .36

                                          UNIT HYDROGRAPH
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34 END-OF-PERIOD ORDINATES

2.	6.	9.	9.	8.	7.	6.	5.	4.	3.
3.	2.	2.	2.	1.	1.	1.	1.	1.	1.
1.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.						

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HYDROGRAPH AT STATION DEVELO

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1		0000	1	.00	.00	.00	0.	*	1		1230	151	.00	.00	.00	0.
1		0005	2	.01	.00	.00	0.	*	1		1235	152	.00	.00	.00	0.
1		0010	3	.01	.00	.00	0.	*	1		1240	153	.00	.00	.00	0.
1		0015	4	.01	.00	.00	0.	*	1		1245	154	.00	.00	.00	0.
1		0020	5	.01	.00	.00	0.	*	1		1250	155	.00	.00	.00	0.
1		0025	6	.01	.00	.00	0.	*	1		1255	156	.00	.00	.00	0.
1		0030	7	.01	.00	.00	0.	*	1		1300	157	.00	.00	.00	0.
1		0035	8	.01	.00	.00	0.	*	1		1305	158	.00	.00	.00	0.
1		0040	9	.01	.00	.00	0.	*	1		1310	159	.00	.00	.00	0.
1		0045	10	.01	.00	.00	0.	*	1		1315	160	.00	.00	.00	0.
1		0050	11	.01	.00	.00	0.	*	1		1320	161	.00	.00	.00	0.
1		0055	12	.01	.00	.00	0.	*	1		1325	162	.00	.00	.00	0.
1		0100	13	.01	.00	.00	0.	*	1		1330	163	.00	.00	.00	0.
1		0105	14	.01	.00	.00	0.	*	1		1335	164	.00	.00	.00	0.
1		0110	15	.01	.00	.00	0.	*	1		1340	165	.00	.00	.00	0.
1		0115	16	.01	.00	.00	0.	*	1		1345	166	.00	.00	.00	0.
1		0120	17	.01	.00	.00	0.	*	1		1350	167	.00	.00	.00	0.
1		0125	18	.01	.00	.00	0.	*	1		1355	168	.00	.00	.00	0.
1		0130	19	.01	.00	.00	0.	*	1		1400	169	.00	.00	.00	0.
1		0135	20	.01	.00	.00	0.	*	1		1405	170	.00	.00	.00	0.
1		0140	21	.01	.00	.00	0.	*	1		1410	171	.00	.00	.00	0.
1		0145	22	.01	.00	.00	0.	*	1		1415	172	.00	.00	.00	0.
1		0150	23	.01	.00	.00	0.	*	1		1420	173	.00	.00	.00	0.
1		0155	24	.01	.00	.00	0.	*	1		1425	174	.00	.00	.00	0.
1		0200	25	.01	.00	.00	0.	*	1		1430	175	.00	.00	.00	0.
1		0205	26	.01	.00	.00	0.	*	1		1435	176	.00	.00	.00	0.
1		0210	27	.01	.00	.00	0.	*	1		1440	177	.00	.00	.00	0.
1		0215	28	.01	.00	.00	0.	*	1		1445	178	.00	.00	.00	0.
1		0220	29	.01	.01	.00	0.	*	1		1450	179	.00	.00	.00	0.
1		0225	30	.01	.01	.00	0.	*	1		1455	180	.00	.00	.00	0.
1		0230	31	.01	.01	.00	0.	*	1		1500	181	.00	.00	.00	0.
1		0235	32	.01	.01	.00	0.	*	1		1505	182	.00	.00	.00	0.
1		0240	33	.01	.01	.00	0.	*	1		1510	183	.00	.00	.00	0.
1		0245	34	.01	.01	.00	0.	*	1		1515	184	.00	.00	.00	0.
1		0250	35	.01	.01	.00	0.	*	1		1520	185	.00	.00	.00	0.
1		0255	36	.01	.01	.00	0.	*	1		1525	186	.00	.00	.00	0.
1		0300	37	.01	.01	.00	0.	*	1		1530	187	.00	.00	.00	0.
1		0305	38	.01	.01	.00	0.	*	1		1535	188	.00	.00	.00	0.
1		0310	39	.01	.01	.00	0.	*	1		1540	189	.00	.00	.00	0.
1		0315	40	.01	.01	.00	0.	*	1		1545	190	.00	.00	.00	0.
1		0320	41	.05	.04	.02	0.	*	1		1550	191	.00	.00	.00	0.
1		0325	42	.05	.04	.02	0.	*	1		1555	192	.00	.00	.00	0.
1		0330	43	.05	.04	.02	0.	*	1		1600	193	.00	.00	.00	0.
1		0335	44	.11	.07	.03	1.	*	1		1605	194	.00	.00	.00	0.

1	0340	45	.11	.07	.03	1.	*	1	1610	195	.00	.00	.00	0.
1	0345	46	.11	.07	.03	1.	*	1	1615	196	.00	.00	.00	0.
1	0350	47	.30	.10	.20	2.	*	1	1620	197	.00	.00	.00	0.
1	0355	48	.30	.08	.22	3.	*	1	1625	198	.00	.00	.00	0.
1	0400	49	.30	.07	.23	5.	*	1	1630	199	.00	.00	.00	0.
1	0405	50	.05	.04	.02	6.	*	1	1635	200	.00	.00	.00	0.
1	0410	51	.05	.04	.02	7.	*	1	1640	201	.00	.00	.00	0.
1	0415	52	.05	.04	.02	6.	*	1	1645	202	.00	.00	.00	0.
1	0420	53	.01	.01	.00	5.	*	1	1650	203	.00	.00	.00	0.
1	0425	54	.01	.01	.00	5.	*	1	1655	204	.00	.00	.00	0.
1	0430	55	.01	.01	.00	4.	*	1	1700	205	.00	.00	.00	0.
1	0435	56	.01	.01	.00	3.	*	1	1705	206	.00	.00	.00	0.
1	0440	57	.01	.01	.00	3.	*	1	1710	207	.00	.00	.00	0.
1	0445	58	.01	.01	.00	3.	*	1	1715	208	.00	.00	.00	0.
1	0450	59	.01	.01	.00	2.	*	1	1720	209	.00	.00	.00	0.
1	0455	60	.01	.01	.00	2.	*	1	1725	210	.00	.00	.00	0.
1	0500	61	.01	.01	.00	2.	*	1	1730	211	.00	.00	.00	0.
1	0505	62	.01	.01	.00	1.	*	1	1735	212	.00	.00	.00	0.
1	0510	63	.01	.01	.00	1.	*	1	1740	213	.00	.00	.00	0.
1	0515	64	.01	.01	.00	1.	*	1	1745	214	.00	.00	.00	0.
1	0520	65	.01	.00	.00	1.	*	1	1750	215	.00	.00	.00	0.
1	0525	66	.01	.00	.00	1.	*	1	1755	216	.00	.00	.00	0.
1	0530	67	.01	.00	.00	1.	*	1	1800	217	.00	.00	.00	0.
1	0535	68	.01	.00	.00	1.	*	1	1805	218	.00	.00	.00	0.
1	0540	69	.01	.00	.00	1.	*	1	1810	219	.00	.00	.00	0.
1	0545	70	.01	.00	.00	0.	*	1	1815	220	.00	.00	.00	0.
1	0550	71	.01	.00	.00	0.	*	1	1820	221	.00	.00	.00	0.
1	0555	72	.01	.00	.00	0.	*	1	1825	222	.00	.00	.00	0.
1	0600	73	.01	.00	.00	0.	*	1	1830	223	.00	.00	.00	0.
1	0605	74	.00	.00	.00	0.	*	1	1835	224	.00	.00	.00	0.
1	0610	75	.00	.00	.00	0.	*	1	1840	225	.00	.00	.00	0.
1	0615	76	.00	.00	.00	0.	*	1	1845	226	.00	.00	.00	0.
1	0620	77	.00	.00	.00	0.	*	1	1850	227	.00	.00	.00	0.
1	0625	78	.00	.00	.00	0.	*	1	1855	228	.00	.00	.00	0.
1	0630	79	.00	.00	.00	0.	*	1	1900	229	.00	.00	.00	0.
1	0635	80	.00	.00	.00	0.	*	1	1905	230	.00	.00	.00	0.
1	0640	81	.00	.00	.00	0.	*	1	1910	231	.00	.00	.00	0.
1	0645	82	.00	.00	.00	0.	*	1	1915	232	.00	.00	.00	0.
1	0650	83	.00	.00	.00	0.	*	1	1920	233	.00	.00	.00	0.
1	0655	84	.00	.00	.00	0.	*	1	1925	234	.00	.00	.00	0.
1	0700	85	.00	.00	.00	0.	*	1	1930	235	.00	.00	.00	0.
1	0705	86	.00	.00	.00	0.	*	1	1935	236	.00	.00	.00	0.
1	0710	87	.00	.00	.00	0.	*	1	1940	237	.00	.00	.00	0.
1	0715	88	.00	.00	.00	0.	*	1	1945	238	.00	.00	.00	0.
1	0720	89	.00	.00	.00	0.	*	1	1950	239	.00	.00	.00	0.
1	0725	90	.00	.00	.00	0.	*	1	1955	240	.00	.00	.00	0.
1	0730	91	.00	.00	.00	0.	*	1	2000	241	.00	.00	.00	0.
1	0735	92	.00	.00	.00	0.	*	1	2005	242	.00	.00	.00	0.
1	0740	93	.00	.00	.00	0.	*	1	2010	243	.00	.00	.00	0.
1	0745	94	.00	.00	.00	0.	*	1	2015	244	.00	.00	.00	0.
1	0750	95	.00	.00	.00	0.	*	1	2020	245	.00	.00	.00	0.
1	0755	96	.00	.00	.00	0.	*	1	2025	246	.00	.00	.00	0.
1	0800	97	.00	.00	.00	0.	*	1	2030	247	.00	.00	.00	0.
1	0805	98	.00	.00	.00	0.	*	1	2035	248	.00	.00	.00	0.
1	0810	99	.00	.00	.00	0.	*	1	2040	249	.00	.00	.00	0.
1	0815	100	.00	.00	.00	0.	*	1	2045	250	.00	.00	.00	0.
1	0820	101	.00	.00	.00	0.	*	1	2050	251	.00	.00	.00	0.
1	0825	102	.00	.00	.00	0.	*	1	2055	252	.00	.00	.00	0.

1	0830	103	.00	.00	.00	0.	*	1	2100	253	.00	.00	.00	0.
1	0835	104	.00	.00	.00	0.	*	1	2105	254	.00	.00	.00	0.
1	0840	105	.00	.00	.00	0.	*	1	2110	255	.00	.00	.00	0.
1	0845	106	.00	.00	.00	0.	*	1	2115	256	.00	.00	.00	0.
1	0850	107	.00	.00	.00	0.	*	1	2120	257	.00	.00	.00	0.
1	0855	108	.00	.00	.00	0.	*	1	2125	258	.00	.00	.00	0.
1	0900	109	.00	.00	.00	0.	*	1	2130	259	.00	.00	.00	0.
1	0905	110	.00	.00	.00	0.	*	1	2135	260	.00	.00	.00	0.
1	0910	111	.00	.00	.00	0.	*	1	2140	261	.00	.00	.00	0.
1	0915	112	.00	.00	.00	0.	*	1	2145	262	.00	.00	.00	0.
1	0920	113	.00	.00	.00	0.	*	1	2150	263	.00	.00	.00	0.
1	0925	114	.00	.00	.00	0.	*	1	2155	264	.00	.00	.00	0.
1	0930	115	.00	.00	.00	0.	*	1	2200	265	.00	.00	.00	0.
1	0935	116	.00	.00	.00	0.	*	1	2205	266	.00	.00	.00	0.
1	0940	117	.00	.00	.00	0.	*	1	2210	267	.00	.00	.00	0.
1	0945	118	.00	.00	.00	0.	*	1	2215	268	.00	.00	.00	0.
1	0950	119	.00	.00	.00	0.	*	1	2220	269	.00	.00	.00	0.
1	0955	120	.00	.00	.00	0.	*	1	2225	270	.00	.00	.00	0.
1	1000	121	.00	.00	.00	0.	*	1	2230	271	.00	.00	.00	0.
1	1005	122	.00	.00	.00	0.	*	1	2235	272	.00	.00	.00	0.
1	1010	123	.00	.00	.00	0.	*	1	2240	273	.00	.00	.00	0.
1	1015	124	.00	.00	.00	0.	*	1	2245	274	.00	.00	.00	0.
1	1020	125	.00	.00	.00	0.	*	1	2250	275	.00	.00	.00	0.
1	1025	126	.00	.00	.00	0.	*	1	2255	276	.00	.00	.00	0.
1	1030	127	.00	.00	.00	0.	*	1	2300	277	.00	.00	.00	0.
1	1035	128	.00	.00	.00	0.	*	1	2305	278	.00	.00	.00	0.
1	1040	129	.00	.00	.00	0.	*	1	2310	279	.00	.00	.00	0.
1	1045	130	.00	.00	.00	0.	*	1	2315	280	.00	.00	.00	0.
1	1050	131	.00	.00	.00	0.	*	1	2320	281	.00	.00	.00	0.
1	1055	132	.00	.00	.00	0.	*	1	2325	282	.00	.00	.00	0.
1	1100	133	.00	.00	.00	0.	*	1	2330	283	.00	.00	.00	0.
1	1105	134	.00	.00	.00	0.	*	1	2335	284	.00	.00	.00	0.
1	1110	135	.00	.00	.00	0.	*	1	2340	285	.00	.00	.00	0.
1	1115	136	.00	.00	.00	0.	*	1	2345	286	.00	.00	.00	0.
1	1120	137	.00	.00	.00	0.	*	1	2350	287	.00	.00	.00	0.
1	1125	138	.00	.00	.00	0.	*	1	2355	288	.00	.00	.00	0.
1	1130	139	.00	.00	.00	0.	*	2	0000	289	.00	.00	.00	0.
1	1135	140	.00	.00	.00	0.	*	2	0005	290	.00	.00	.00	0.
1	1140	141	.00	.00	.00	0.	*	2	0010	291	.00	.00	.00	0.
1	1145	142	.00	.00	.00	0.	*	2	0015	292	.00	.00	.00	0.
1	1150	143	.00	.00	.00	0.	*	2	0020	293	.00	.00	.00	0.
1	1155	144	.00	.00	.00	0.	*	2	0025	294	.00	.00	.00	0.
1	1200	145	.00	.00	.00	0.	*	2	0030	295	.00	.00	.00	0.
1	1205	146	.00	.00	.00	0.	*	2	0035	296	.00	.00	.00	0.
1	1210	147	.00	.00	.00	0.	*	2	0040	297	.00	.00	.00	0.
1	1215	148	.00	.00	.00	0.	*	2	0045	298	.00	.00	.00	0.
1	1220	149	.00	.00	.00	0.	*	2	0050	299	.00	.00	.00	0.
1	1225	150	.00	.00	.00	0.	*	2	0055	300	.00	.00	.00	0.
							*							

****

TOTAL RAINFALL = 1.99, TOTAL LOSS = 1.01, TOTAL EXCESS = .98

PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW (CFS) 6-HR	24-HR	72-HR	24.92-HR
7.	4.17	1.	0.	0.	0.

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                    (INCHES)      .967        .975        .975        .975
                     (AC-FT)        1.          1.          1.          1.

                     CUMULATIVE AREA =     .01 SQ MI


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


          **************
          *            *
 75 KK    *   Node8    *
          *            *
          **************
                        Route area through subdivision to remove retention storage

 80 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

             HYDROGRAPH ROUTING DATA

 77 RS          STORAGE ROUTING
                      NSTPS          1  NUMBER OF SUBREACHES
                       ITYP       STOR  TYPE OF INITIAL CONDITION
                     RSVRIC        .00  INITIAL CONDITION
                          X        .00 WORKING R AND D COEFFICIENT

 78 SV            STORAGE         .0        .6        .6        .6        .6        .6        .6

 79 SQ          DISCHARGE         0.        0.       10.       20.       30.       40.       50.

                                                                 ***

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN        0. TO       50.
                THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
                THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

*****************************************************************************************************************************

                                                HYDROGRAPH AT STATION   Node8

*****************************************************************************************************************************
                                          *                                          *
  DA MON HRMN  ORD   OUTFLOW    STORAGE   *  DA MON HRMN  ORD   OUTFLOW    STORAGE   *  DA MON HRMN  ORD   OUTFLOW    STORAGE
                                          *                                          *
   1    0000    1       0.        .00    *   1    0820  101       0.        .52    *   1    1640  201       0.        .52
   1    0005    2       0.        .00    *   1    0825  102       0.        .52    *   1    1645  202       0.        .52
   1    0010    3       0.        .00    *   1    0830  103       0.        .52    *   1    1650  203       0.        .52
   1    0015    4       0.        .00    *   1    0835  104       0.        .52    *   1    1655  204       0.        .52
   1    0020    5       0.        .00    *   1    0840  105       0.        .52    *   1    1700  205       0.        .52
   1    0025    6       0.        .00    *   1    0845  106       0.        .52    *   1    1705  206       0.        .52
   1    0030    7       0.        .00    *   1    0850  107       0.        .52    *   1    1710  207       0.        .52
   1    0035    8       0.        .00    *   1    0855  108       0.        .52    *   1    1715  208       0.        .52
   1    0040    9       0.        .00    *   1    0900  109       0.        .52    *   1    1720  209       0.        .52
```

1	0045	10	0.	.00	*	1	0905	110	0.	.52	*	1	1725	210	0.	.52
1	0050	11	0.	.00	*	1	0910	111	0.	.52	*	1	1730	211	0.	.52
1	0055	12	0.	.00	*	1	0915	112	0.	.52	*	1	1735	212	0.	.52
1	0100	13	0.	.00	*	1	0920	113	0.	.52	*	1	1740	213	0.	.52
1	0105	14	0.	.01	*	1	0925	114	0.	.52	*	1	1745	214	0.	.52
1	0110	15	0.	.01	*	1	0930	115	0.	.52	*	1	1750	215	0.	.52
1	0115	16	0.	.01	*	1	0935	116	0.	.52	*	1	1755	216	0.	.52
1	0120	17	0.	.01	*	1	0940	117	0.	.52	*	1	1800	217	0.	.52
1	0125	18	0.	.01	*	1	0945	118	0.	.52	*	1	1805	218	0.	.52
1	0130	19	0.	.01	*	1	0950	119	0.	.52	*	1	1810	219	0.	.52
1	0135	20	0.	.01	*	1	0955	120	0.	.52	*	1	1815	220	0.	.52
1	0140	21	0.	.01	*	1	1000	121	0.	.52	*	1	1820	221	0.	.52
1	0145	22	0.	.01	*	1	1005	122	0.	.52	*	1	1825	222	0.	.52
1	0150	23	0.	.01	*	1	1010	123	0.	.52	*	1	1830	223	0.	.52
1	0155	24	0.	.01	*	1	1015	124	0.	.52	*	1	1835	224	0.	.52
1	0200	25	0.	.01	*	1	1020	125	0.	.52	*	1	1840	225	0.	.52
1	0205	26	0.	.02	*	1	1025	126	0.	.52	*	1	1845	226	0.	.52
1	0210	27	0.	.02	*	1	1030	127	0.	.52	*	1	1850	227	0.	.52
1	0215	28	0.	.02	*	1	1035	128	0.	.52	*	1	1855	228	0.	.52
1	0220	29	0.	.02	*	1	1040	129	0.	.52	*	1	1900	229	0.	.52
1	0225	30	0.	.02	*	1	1045	130	0.	.52	*	1	1905	230	0.	.52
1	0230	31	0.	.02	*	1	1050	131	0.	.52	*	1	1910	231	0.	.52
1	0235	32	0.	.02	*	1	1055	132	0.	.52	*	1	1915	232	0.	.52
1	0240	33	0.	.02	*	1	1100	133	0.	.52	*	1	1920	233	0.	.52
1	0245	34	0.	.02	*	1	1105	134	0.	.52	*	1	1925	234	0.	.52
1	0250	35	0.	.02	*	1	1110	135	0.	.52	*	1	1930	235	0.	.52
1	0255	36	0.	.03	*	1	1115	136	0.	.52	*	1	1935	236	0.	.52
1	0300	37	0.	.03	*	1	1120	137	0.	.52	*	1	1940	237	0.	.52
1	0305	38	0.	.03	*	1	1125	138	0.	.52	*	1	1945	238	0.	.52
1	0310	39	0.	.03	*	1	1130	139	0.	.52	*	1	1950	239	0.	.52
1	0315	40	0.	.03	*	1	1135	140	0.	.52	*	1	1955	240	0.	.52
1	0320	41	0.	.03	*	1	1140	141	0.	.52	*	1	2000	241	0.	.52
1	0325	42	0.	.04	*	1	1145	142	0.	.52	*	1	2005	242	0.	.52
1	0330	43	0.	.04	*	1	1150	143	0.	.52	*	1	2010	243	0.	.52
1	0335	44	0.	.04	*	1	1155	144	0.	.52	*	1	2015	244	0.	.52
1	0340	45	0.	.05	*	1	1200	145	0.	.52	*	1	2020	245	0.	.52
1	0345	46	0.	.05	*	1	1205	146	0.	.52	*	1	2025	246	0.	.52
1	0350	47	0.	.06	*	1	1210	147	0.	.52	*	1	2030	247	0.	.52
1	0355	48	0.	.08	*	1	1215	148	0.	.52	*	1	2035	248	0.	.52
1	0400	49	0.	.10	*	1	1220	149	0.	.52	*	1	2040	249	0.	.52
1	0405	50	0.	.14	*	1	1225	150	0.	.52	*	1	2045	250	0.	.52
1	0410	51	0.	.18	*	1	1230	151	0.	.52	*	1	2050	251	0.	.52
1	0415	52	0.	.23	*	1	1235	152	0.	.52	*	1	2055	252	0.	.52
1	0420	53	0.	.27	*	1	1240	153	0.	.52	*	1	2100	253	0.	.52
1	0425	54	0.	.30	*	1	1245	154	0.	.52	*	1	2105	254	0.	.52
1	0430	55	0.	.33	*	1	1250	155	0.	.52	*	1	2110	255	0.	.52
1	0435	56	0.	.36	*	1	1255	156	0.	.52	*	1	2115	256	0.	.52
1	0440	57	0.	.38	*	1	1300	157	0.	.52	*	1	2120	257	0.	.52
1	0445	58	0.	.40	*	1	1305	158	0.	.52	*	1	2125	258	0.	.52
1	0450	59	0.	.42	*	1	1310	159	0.	.52	*	1	2130	259	0.	.52
1	0455	60	0.	.43	*	1	1315	160	0.	.52	*	1	2135	260	0.	.52
1	0500	61	0.	.44	*	1	1320	161	0.	.52	*	1	2140	261	0.	.52
1	0505	62	0.	.45	*	1	1325	162	0.	.52	*	1	2145	262	0.	.52
1	0510	63	0.	.46	*	1	1330	163	0.	.52	*	1	2150	263	0.	.52
1	0515	64	0.	.47	*	1	1335	164	0.	.52	*	1	2155	264	0.	.52
1	0520	65	0.	.48	*	1	1340	165	0.	.52	*	1	2200	265	0.	.52
1	0525	66	0.	.48	*	1	1345	166	0.	.52	*	1	2205	266	0.	.52
1	0530	67	0.	.49	*	1	1350	167	0.	.52	*	1	2210	267	0.	.52

1	0535	68	0.	.49	*	1	1355	168	0.	.52	*	1	2215	268	0.	.52
1	0540	69	0.	.50	*	1	1400	169	0.	.52	*	1	2220	269	0.	.52
1	0545	70	0.	.50	*	1	1405	170	0.	.52	*	1	2225	270	0.	.52
1	0550	71	0.	.50	*	1	1410	171	0.	.52	*	1	2230	271	0.	.52
1	0555	72	0.	.50	*	1	1415	172	0.	.52	*	1	2235	272	0.	.52
1	0600	73	0.	.51	*	1	1420	173	0.	.52	*	1	2240	273	0.	.52
1	0605	74	0.	.51	*	1	1425	174	0.	.52	*	1	2245	274	0.	.52
1	0610	75	0.	.51	*	1	1430	175	0.	.52	*	1	2250	275	0.	.52
1	0615	76	0.	.51	*	1	1435	176	0.	.52	*	1	2255	276	0.	.52
1	0620	77	0.	.51	*	1	1440	177	0.	.52	*	1	2300	277	0.	.52
1	0625	78	0.	.52	*	1	1445	178	0.	.52	*	1	2305	278	0.	.52
1	0630	79	0.	.52	*	1	1450	179	0.	.52	*	1	2310	279	0.	.52
1	0635	80	0.	.52	*	1	1455	180	0.	.52	*	1	2315	280	0.	.52
1	0640	81	0.	.52	*	1	1500	181	0.	.52	*	1	2320	281	0.	.52
1	0645	82	0.	.52	*	1	1505	182	0.	.52	*	1	2325	282	0.	.52
1	0650	83	0.	.52	*	1	1510	183	0.	.52	*	1	2330	283	0.	.52
1	0655	84	0.	.52	*	1	1515	184	0.	.52	*	1	2335	284	0.	.52
1	0700	85	0.	.52	*	1	1520	185	0.	.52	*	1	2340	285	0.	.52
1	0705	86	0.	.52	*	1	1525	186	0.	.52	*	1	2345	286	0.	.52
1	0710	87	0.	.52	*	1	1530	187	0.	.52	*	1	2350	287	0.	.52
1	0715	88	0.	.52	*	1	1535	188	0.	.52	*	1	2355	288	0.	.52
1	0720	89	0.	.52	*	1	1540	189	0.	.52	*	2	0000	289	0.	.52
1	0725	90	0.	.52	*	1	1545	190	0.	.52	*	2	0005	290	0.	.52
1	0730	91	0.	.52	*	1	1550	191	0.	.52	*	2	0010	291	0.	.52
1	0735	92	0.	.52	*	1	1555	192	0.	.52	*	2	0015	292	0.	.52
1	0740	93	0.	.52	*	1	1600	193	0.	.52	*	2	0020	293	0.	.52
1	0745	94	0.	.52	*	1	1605	194	0.	.52	*	2	0025	294	0.	.52
1	0750	95	0.	.52	*	1	1610	195	0.	.52	*	2	0030	295	0.	.52
1	0755	96	0.	.52	*	1	1615	196	0.	.52	*	2	0035	296	0.	.52
1	0800	97	0.	.52	*	1	1620	197	0.	.52	*	2	0040	297	0.	.52
1	0805	98	0.	.52	*	1	1625	198	0.	.52	*	2	0045	298	0.	.52
1	0810	99	0.	.52	*	1	1630	199	0.	.52	*	2	0050	299	0.	.52
1	0815	100	0.	.52	*	1	1635	200	0.	.52	*	2	0055	300	0.	.52
					*						*					

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
0.	.08		0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
1.	7.83	1.	0.	0.	0.

CUMULATIVE AREA = .01 SQ MI

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          *           *
81 KK     *   Node13  *
          *           *
          **************
                    confluence g1-g2 with g3

83 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          2  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL         0.  HYDROGRAPH PLOT SCALE
                     IPNCH          0  PUNCH COMPUTED HYDROGRAPH
                      IOUT         22  SAVE HYDROGRAPH ON THIS UNIT
                     ISAV1          1  FIRST ORDINATE PUNCHED OR SAVED
                     ISAV2        300  LAST ORDINATE PUNCHED OR SAVED
                    TIMINT       .083  TIME INTERVAL IN HOURS


85 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          2  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL         0.  HYDROGRAPH PLOT SCALE

84 HC          HYDROGRAPH COMBINATION
                     ICOMP          2  NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION Node13
SUM OF 2 HYDROGRAPHS

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	33.	*	1		1230	151	0.	*	1		1845	226	0.
1		0005	2	0.	*	1		0620	77	30.	*	1		1235	152	0.	*	1		1850	227	0.
1		0010	3	0.	*	1		0625	78	28.	*	1		1240	153	0.	*	1		1855	228	0.
1		0015	4	0.	*	1		0630	79	26.	*	1		1245	154	0.	*	1		1900	229	0.
1		0020	5	0.	*	1		0635	80	24.	*	1		1250	155	0.	*	1		1905	230	0.
1		0025	6	0.	*	1		0640	81	22.	*	1		1255	156	0.	*	1		1910	231	0.
1		0030	7	0.	*	1		0645	82	20.	*	1		1300	157	0.	*	1		1915	232	0.
1		0035	8	0.	*	1		0650	83	19.	*	1		1305	158	0.	*	1		1920	233	0.
1		0040	9	0.	*	1		0655	84	18.	*	1		1310	159	0.	*	1		1925	234	0.
1		0045	10	0.	*	1		0700	85	16.	*	1		1315	160	0.	*	1		1930	235	0.
1		0050	11	0.	*	1		0705	86	15.	*	1		1320	161	0.	*	1		1935	236	0.
1		0055	12	0.	*	1		0710	87	14.	*	1		1325	162	0.	*	1		1940	237	0.
1		0100	13	0.	*	1		0715	88	13.	*	1		1330	163	0.	*	1		1945	238	0.
1		0105	14	0.	*	1		0720	89	12.	*	1		1335	164	0.	*	1		1950	239	0.
1		0110	15	0.	*	1		0725	90	11.	*	1		1340	165	0.	*	1		1955	240	0.
1		0115	16	0.	*	1		0730	91	10.	*	1		1345	166	0.	*	1		2000	241	0.
1		0120	17	0.	*	1		0735	92	9.	*	1		1350	167	0.	*	1		2005	242	0.
1		0125	18	0.	*	1		0740	93	8.	*	1		1355	168	0.	*	1		2010	243	0.
1		0130	19	1.	*	1		0745	94	8.	*	1		1400	169	0.	*	1		2015	244	0.
1		0135	20	1.	*	1		0750	95	7.	*	1		1405	170	0.	*	1		2020	245	0.
1		0140	21	1.	*	1		0755	96	6.	*	1		1410	171	0.	*	1		2025	246	0.
1		0145	22	1.	*	1		0800	97	6.	*	1		1415	172	0.	*	1		2030	247	0.

1	0150	23	1.	*	1	0805	98	6.	*	1	1420	173	0.	*	1	2035	248	0.
1	0155	24	1.	*	1	0810	99	6.	*	1	1425	174	0.	*	1	2040	249	0.
1	0200	25	1.	*	1	0815	100	5.	*	1	1430	175	0.	*	1	2045	250	0.
1	0205	26	1.	*	1	0820	101	5.	*	1	1435	176	0.	*	1	2050	251	0.
1	0210	27	1.	*	1	0825	102	5.	*	1	1440	177	0.	*	1	2055	252	0.
1	0215	28	1.	*	1	0830	103	4.	*	1	1445	178	0.	*	1	2100	253	0.
1	0220	29	1.	*	1	0835	104	4.	*	1	1450	179	0.	*	1	2105	254	0.
1	0225	30	1.	*	1	0840	105	4.	*	1	1455	180	0.	*	1	2110	255	0.
1	0230	31	1.	*	1	0845	106	3.	*	1	1500	181	0.	*	1	2115	256	0.
1	0235	32	1.	*	1	0850	107	3.	*	1	1505	182	0.	*	1	2120	257	0.
1	0240	33	1.	*	1	0855	108	3.	*	1	1510	183	0.	*	1	2125	258	0.
1	0245	34	1.	*	1	0900	109	3.	*	1	1515	184	0.	*	1	2130	259	0.
1	0250	35	1.	*	1	0905	110	2.	*	1	1520	185	0.	*	1	2135	260	0.
1	0255	36	1.	*	1	0910	111	2.	*	1	1525	186	0.	*	1	2140	261	0.
1	0300	37	1.	*	1	0915	112	2.	*	1	1530	187	0.	*	1	2145	262	0.
1	0305	38	1.	*	1	0920	113	2.	*	1	1535	188	0.	*	1	2150	263	0.
1	0310	39	1.	*	1	0925	114	2.	*	1	1540	189	0.	*	1	2155	264	0.
1	0315	40	1.	*	1	0930	115	2.	*	1	1545	190	0.	*	1	2200	265	0.
1	0320	41	1.	*	1	0935	116	1.	*	1	1550	191	0.	*	1	2205	266	0.
1	0325	42	1.	*	1	0940	117	1.	*	1	1555	192	0.	*	1	2210	267	0.
1	0330	43	1.	*	1	0945	118	1.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	2.	*	1	0950	119	1.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	2.	*	1	0955	120	1.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	2.	*	1	1000	121	1.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	2.	*	1	1005	122	0.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	3.	*	1	1010	123	0.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	3.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	6.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	12.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	21.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	34.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	50.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	68.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	83.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	92.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	96.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	96.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	95.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	92.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	89.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	85.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	81.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	77.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	72.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	67.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	62.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	57.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	53.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	49.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	45.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	42.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	39.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	36.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR

```
(CFS)      (HR)
                      (CFS)
   96.     4.83                  28.         7.          7.          7.
                   (INCHES)      .566        .575        .575        .575
                    (AC-FT)       14.         14.         14.         14.

                    CUMULATIVE AREA =     .46 SQ MI


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


          **************
          *            *
 86 KK    *    Node10  *
          *            *
          **************
                     Route water from  middle of subdivision to old mcdowell

 92 KO          OUTPUT CONTROL VARIABLES
                      IPRNT           2  PRINT CONTROL
                      IPLOT           0  PLOT CONTROL
                      QSCAL          0.  HYDROGRAPH PLOT SCALE

            HYDROGRAPH ROUTING DATA

 88 RS          STORAGE ROUTING
                      NSTPS           1  NUMBER OF SUBREACHES
                       ITYP        STOR  TYPE OF INITIAL CONDITION
                     RSVRIC         .00  INITIAL CONDITION
                          X         .00 WORKING R AND D COEFFICIENT

 89 RC          NORMAL DEPTH CHANNEL
                        ANL        .035  LEFT OVERBANK N-VALUE
                       ANCH        .035  MAIN CHANNEL N-VALUE
                        ANR        .035  RIGHT OVERBANK N-VALUE
                      RLNTH        650.  REACH LENGTH
                        SEL       .0022  ENERGY SLOPE
                      ELMAX        15.0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                      CROSS-SECTION DATA
                         --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
 91 RY        ELEVATION     15.00     11.00     10.00      5.85      5.85     10.00     11.00     15.00
 90 RX        DISTANCE        .00     20.00    120.00    136.60    146.60    162.20    262.20    282.20

                                                   ***

                                      COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

          STORAGE        .00       .09       .20       .34       .50       .69       .91      1.16      1.43      1.78
          OUTFLOW        .00      6.32     21.74     46.35     81.01    126.67    184.32    254.90    339.36    449.06
        ELEVATION       5.85      6.33      6.81      7.29      7.78      8.26      8.74      9.22      9.70     10.18

          STORAGE       2.70      4.27      6.04      7.84      9.68     11.55     13.46     15.40     17.38     19.39
          OUTFLOW     628.29    931.10   1390.33   1963.47   2640.18   3413.96   4280.30   5235.91   6278.27   7405.46
        ELEVATION      10.67     11.15     11.63     12.11     12.59     13.07     13.56     14.04     14.52     15.00
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*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 255. TO 7405.
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

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HYDROGRAPH AT STATION Node10

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DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	5.8	1		0820	101	5.	.1	6.3	1		1640	201	0.	.0	5.8
1		0005	2	0.	.0	5.9	1		0825	102	5.	.1	6.2	1		1645	202	0.	.0	5.8
1		0010	3	0.	.0	5.9	1		0830	103	5.	.1	6.2	1		1650	203	0.	.0	5.8
1		0015	4	0.	.0	5.9	1		0835	104	4.	.1	6.2	1		1655	204	0.	.0	5.8
1		0020	5	0.	.0	5.9	1		0840	105	4.	.1	6.2	1		1700	205	0.	.0	5.8
1		0025	6	0.	.0	5.9	1		0845	106	4.	.1	6.1	1		1705	206	0.	.0	5.8
1		0030	7	0.	.0	5.9	1		0850	107	4.	.0	6.1	1		1710	207	0.	.0	5.8
1		0035	8	0.	.0	5.9	1		0855	108	3.	.0	6.1	1		1715	208	0.	.0	5.8
1		0040	9	0.	.0	5.9	1		0900	109	3.	.0	6.1	1		1720	209	0.	.0	5.8
1		0045	10	0.	.0	5.9	1		0905	110	3.	.0	6.1	1		1725	210	0.	.0	5.8
1		0050	11	0.	.0	5.9	1		0910	111	3.	.0	6.0	1		1730	211	0.	.0	5.8
1		0055	12	0.	.0	5.9	1		0915	112	2.	.0	6.0	1		1735	212	0.	.0	5.8
1		0100	13	0.	.0	5.9	1		0920	113	2.	.0	6.0	1		1740	213	0.	.0	5.8
1		0105	14	0.	.0	5.9	1		0925	114	2.	.0	6.0	1		1745	214	0.	.0	5.8
1		0110	15	0.	.0	5.9	1		0930	115	2.	.0	6.0	1		1750	215	0.	.0	5.8
1		0115	16	0.	.0	5.9	1		0935	116	2.	.0	6.0	1		1755	216	0.	.0	5.8
1		0120	17	0.	.0	5.9	1		0940	117	2.	.0	6.0	1		1800	217	0.	.0	5.8
1		0125	18	0.	.0	5.9	1		0945	118	1.	.0	6.0	1		1805	218	0.	.0	5.8
1		0130	19	0.	.0	5.9	1		0950	119	1.	.0	5.9	1		1810	219	0.	.0	5.8
1		0135	20	0.	.0	5.9	1		0955	120	1.	.0	5.9	1		1815	220	0.	.0	5.8
1		0140	21	1.	.0	5.9	1		1000	121	1.	.0	5.9	1		1820	221	0.	.0	5.8
1		0145	22	1.	.0	5.9	1		1005	122	1.	.0	5.9	1		1825	222	0.	.0	5.8
1		0150	23	1.	.0	5.9	1		1010	123	1.	.0	5.9	1		1830	223	0.	.0	5.8
1		0155	24	1.	.0	5.9	1		1015	124	0.	.0	5.9	1		1835	224	0.	.0	5.8
1		0200	25	1.	.0	5.9	1		1020	125	0.	.0	5.9	1		1840	225	0.	.0	5.8
1		0205	26	1.	.0	5.9	1		1025	126	0.	.0	5.9	1		1845	226	0.	.0	5.8
1		0210	27	1.	.0	5.9	1		1030	127	0.	.0	5.9	1		1850	227	0.	.0	5.8
1		0215	28	1.	.0	5.9	1		1035	128	0.	.0	5.9	1		1855	228	0.	.0	5.8
1		0220	29	1.	.0	5.9	1		1040	129	0.	.0	5.9	1		1900	229	0.	.0	5.8
1		0225	30	1.	.0	5.9	1		1045	130	0.	.0	5.9	1		1905	230	0.	.0	5.8
1		0230	31	1.	.0	5.9	1		1050	131	0.	.0	5.9	1		1910	231	0.	.0	5.8
1		0235	32	1.	.0	5.9	1		1055	132	0.	.0	5.9	1		1915	232	0.	.0	5.8
1		0240	33	1.	.0	5.9	1		1100	133	0.	.0	5.9	1		1920	233	0.	.0	5.8
1		0245	34	1.	.0	5.9	1		1105	134	0.	.0	5.9	1		1925	234	0.	.0	5.8
1		0250	35	1.	.0	5.9	1		1110	135	0.	.0	5.9	1		1930	235	0.	.0	5.8
1		0255	36	1.	.0	5.9	1		1115	136	0.	.0	5.9	1		1935	236	0.	.0	5.8
1		0300	37	1.	.0	5.9	1		1120	137	0.	.0	5.9	1		1940	237	0.	.0	5.8
1		0305	38	1.	.0	5.9	1		1125	138	0.	.0	5.9	1		1945	238	0.	.0	5.8
1		0310	39	1.	.0	5.9	1		1130	139	0.	.0	5.9	1		1950	239	0.	.0	5.8
1		0315	40	1.	.0	5.9	1		1135	140	0.	.0	5.9	1		1955	240	0.	.0	5.8
1		0320	41	1.	.0	5.9	1		1140	141	0.	.0	5.9	1		2000	241	0.	.0	5.8
1		0325	42	1.	.0	5.9	1		1145	142	0.	.0	5.9	1		2005	242	0.	.0	5.8
1		0330	43	1.	.0	5.9	1		1150	143	0.	.0	5.9	1		2010	243	0.	.0	5.8
1		0335	44	1.	.0	6.0	1		1155	144	0.	.0	5.9	1		2015	244	0.	.0	5.8

1	0340	45	1.	.0	6.0	*	1	1200	145	0.	.0	5.9	*	1	2020	245	0.	.0	5.8
1	0345	46	2.	.0	6.0	*	1	1205	146	0.	.0	5.9	*	1	2025	246	0.	.0	5.8
1	0350	47	2.	.0	6.0	*	1	1210	147	0.	.0	5.9	*	1	2030	247	0.	.0	5.8
1	0355	48	2.	.0	6.0	*	1	1215	148	0.	.0	5.9	*	1	2035	248	0.	.0	5.8
1	0400	49	2.	.0	6.0	*	1	1220	149	0.	.0	5.9	*	1	2040	249	0.	.0	5.8
1	0405	50	3.	.0	6.1	*	1	1225	150	0.	.0	5.9	*	1	2045	250	0.	.0	5.8
1	0410	51	6.	.1	6.3	*	1	1230	151	0.	.0	5.9	*	1	2050	251	0.	.0	5.8
1	0415	52	12.	.1	6.5	*	1	1235	152	0.	.0	5.9	*	1	2055	252	0.	.0	5.8
1	0420	53	22.	.2	6.8	*	1	1240	153	0.	.0	5.9	*	1	2100	253	0.	.0	5.8
1	0425	54	37.	.3	7.1	*	1	1245	154	0.	.0	5.9	*	1	2105	254	0.	.0	5.8
1	0430	55	55.	.4	7.4	*	1	1250	155	0.	.0	5.9	*	1	2110	255	0.	.0	5.8
1	0435	56	72.	.5	7.7	*	1	1255	156	0.	.0	5.9	*	1	2115	256	0.	.0	5.8
1	0440	57	85.	.5	7.8	*	1	1300	157	0.	.0	5.9	*	1	2120	257	0.	.0	5.8
1	0445	58	93.	.6	7.9	*	1	1305	158	0.	.0	5.9	*	1	2125	258	0.	.0	5.8
1	0450	59	96.	.6	7.9	*	1	1310	159	0.	.0	5.9	*	1	2130	259	0.	.0	5.8
1	0455	60	95.	.6	7.9	*	1	1315	160	0.	.0	5.9	*	1	2135	260	0.	.0	5.8
1	0500	61	93.	.6	7.9	*	1	1320	161	0.	.0	5.9	*	1	2140	261	0.	.0	5.8
1	0505	62	91.	.5	7.9	*	1	1325	162	0.	.0	5.9	*	1	2145	262	0.	.0	5.8
1	0510	63	87.	.5	7.8	*	1	1330	163	0.	.0	5.9	*	1	2150	263	0.	.0	5.8
1	0515	64	84.	.5	7.8	*	1	1335	164	0.	.0	5.8	*	1	2155	264	0.	.0	5.8
1	0520	65	80.	.5	7.8	*	1	1340	165	0.	.0	5.8	*	1	2200	265	0.	.0	5.8
1	0525	66	75.	.5	7.7	*	1	1345	166	0.	.0	5.8	*	1	2205	266	0.	.0	5.8
1	0530	67	71.	.5	7.6	*	1	1350	167	0.	.0	5.8	*	1	2210	267	0.	.0	5.8
1	0535	68	66.	.4	7.6	*	1	1355	168	0.	.0	5.8	*	1	2215	268	0.	.0	5.8
1	0540	69	61.	.4	7.5	*	1	1400	169	0.	.0	5.8	*	1	2220	269	0.	.0	5.8
1	0545	70	56.	.4	7.4	*	1	1405	170	0.	.0	5.8	*	1	2225	270	0.	.0	5.8
1	0550	71	52.	.4	7.4	*	1	1410	171	0.	.0	5.8	*	1	2230	271	0.	.0	5.8
1	0555	72	48.	.3	7.3	*	1	1415	172	0.	.0	5.8	*	1	2235	272	0.	.0	5.8
1	0600	73	45.	.3	7.3	*	1	1420	173	0.	.0	5.8	*	1	2240	273	0.	.0	5.8
1	0605	74	42.	.3	7.2	*	1	1425	174	0.	.0	5.8	*	1	2245	274	0.	.0	5.8
1	0610	75	38.	.3	7.1	*	1	1430	175	0.	.0	5.8	*	1	2250	275	0.	.0	5.8
1	0615	76	35.	.3	7.1	*	1	1435	176	0.	.0	5.8	*	1	2255	276	0.	.0	5.8
1	0620	77	33.	.3	7.0	*	1	1440	177	0.	.0	5.8	*	1	2300	277	0.	.0	5.8
1	0625	78	30.	.2	7.0	*	1	1445	178	0.	.0	5.8	*	1	2305	278	0.	.0	5.8
1	0630	79	28.	.2	6.9	*	1	1450	179	0.	.0	5.8	*	1	2310	279	0.	.0	5.8
1	0635	80	25.	.2	6.9	*	1	1455	180	0.	.0	5.8	*	1	2315	280	0.	.0	5.8
1	0640	81	23.	.2	6.8	*	1	1500	181	0.	.0	5.8	*	1	2320	281	0.	.0	5.8
1	0645	82	22.	.2	6.8	*	1	1505	182	0.	.0	5.8	*	1	2325	282	0.	.0	5.8
1	0650	83	20.	.2	6.8	*	1	1510	183	0.	.0	5.8	*	1	2330	283	0.	.0	5.8
1	0655	84	19.	.2	6.7	*	1	1515	184	0.	.0	5.8	*	1	2335	284	0.	.0	5.8
1	0700	85	18.	.2	6.7	*	1	1520	185	0.	.0	5.8	*	1	2340	285	0.	.0	5.8
1	0705	86	16.	.2	6.6	*	1	1525	186	0.	.0	5.8	*	1	2345	286	0.	.0	5.8
1	0710	87	15.	.1	6.6	*	1	1530	187	0.	.0	5.8	*	1	2350	287	0.	.0	5.8
1	0715	88	14.	.1	6.6	*	1	1535	188	0.	.0	5.8	*	1	2355	288	0.	.0	5.8
1	0720	89	13.	.1	6.5	*	1	1540	189	0.	.0	5.8	*	2	0000	289	0.	.0	5.8
1	0725	90	12.	.1	6.5	*	1	1545	190	0.	.0	5.8	*	2	0005	290	0.	.0	5.8
1	0730	91	11.	.1	6.5	*	1	1550	191	0.	.0	5.8	*	2	0010	291	0.	.0	5.8
1	0735	92	10.	.1	6.4	*	1	1555	192	0.	.0	5.8	*	2	0015	292	0.	.0	5.8
1	0740	93	9.	.1	6.4	*	1	1600	193	0.	.0	5.8	*	2	0020	293	0.	.0	5.8
1	0745	94	8.	.1	6.4	*	1	1605	194	0.	.0	5.8	*	2	0025	294	0.	.0	5.8
1	0750	95	8.	.1	6.4	*	1	1610	195	0.	.0	5.8	*	2	0030	295	0.	.0	5.8
1	0755	96	7.	.1	6.4	*	1	1615	196	0.	.0	5.8	*	2	0035	296	0.	.0	5.8
1	0800	97	7.	.1	6.3	*	1	1620	197	0.	.0	5.8	*	2	0040	297	0.	.0	5.8
1	0805	98	6.	.1	6.3	*	1	1625	198	0.	.0	5.8	*	2	0045	298	0.	.0	5.8
1	0810	99	6.	.1	6.3	*	1	1630	199	0.	.0	5.8	*	2	0050	299	0.	.0	5.8
1	0815	100	6.	.1	6.3	*	1	1635	200	0.	.0	5.8	*	2	0055	300	0.	.0	5.8
						*							*						

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
96.	4.83		28.	7.	7.	7.
		(INCHES)	.565	.575	.575	.575
		(AC-FT)	14.	14.	14.	14.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
1.	4.83	0.	0.	0.	0.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
7.93	4.83	6.75	6.08	6.07	6.07

CUMULATIVE AREA = .46 SQ MI

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          **************
          *            *
 93 KK    *   DEVELO   *     P RAINFALL FOR SUBBASIN G4
          *            *
          **************
                    6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
                    THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
                   L =  .98  Kb = .064  Adj. Slope =   26.3

103 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          2  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL         0.  HYDROGRAPH PLOT SCALE

              SUBBASIN RUNOFF DATA

 97 BA          SUBBASIN CHARACTERISTICS
                     TAREA        .25  SUBBASIN AREA

                PRECIPITATION DATA

 98 PB               STORM       1.99  BASIN TOTAL PRECIPITATION

 11 PI            INCREMENTAL PRECIPITATION PATTERN
                     .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                     .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                     .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                     .00      .00      .00      .01      .01      .01      .01      .01      .01      .03
                     .03      .03      .05      .05      .05      .15      .15      .15      .03      .03
                     .03      .01      .01      .01      .01      .01      .01      .00      .00      .00
                     .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
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                .00       .00

 99 LG        GREEN AND AMPT LOSS RATE
                STRTL        .43  STARTING LOSS
                  DTH        .25  MOISTURE DEFICIT
                 PSIF       3.50  WETTING FRONT SUCTION
                XKSAT        .51  HYDRAULIC CONDUCTIVITY
                RTIMP      10.47  PERCENT IMPERVIOUS AREA

100 UC        CLARK UNITGRAPH
                   TC        .74  TIME OF CONCENTRATION
                    R        .58  STORAGE COEFFICIENT

101 UA        ACCUMULATED-AREA VS. TIME,  11 ORDINATES
                 .0      5.0     16.0     30.0     65.0     77.0     84.0     90.0     94.0     97.0
               100.0

                                          ***

                                   UNIT HYDROGRAPH PARAMETERS
                             CLARK   TC=   .74 HR,       R=   .58 HR
                            SNYDER   TP=   .42 HR,      CP=   .43

                                      UNIT HYDROGRAPH
                                 41 END-OF-PERIOD ORDINATES
          8.      33.      77.     134.     166.     167.     160.     150.     138.     124.
        107.      93.      80.      69.      60.      52.      45.      39.      34.      29.
         25.      22.      19.      16.      14.      12.      11.       9.       8.       7.
          6.       5.       4.       4.       3.       3.       2.       2.       2.       2.
          1.
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HYDROGRAPH AT STATION DEVELO

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
								*								
1		0000	1	.00	.00	.00	0.	*	1		1230	151	.00	.00	.00	0.
1		0005	2	.01	.00	.00	0.	*	1		1235	152	.00	.00	.00	0.
1		0010	3	.01	.00	.00	0.	*	1		1240	153	.00	.00	.00	0.
1		0015	4	.01	.00	.00	0.	*	1		1245	154	.00	.00	.00	0.
1		0020	5	.01	.00	.00	0.	*	1		1250	155	.00	.00	.00	0.
1		0025	6	.01	.00	.00	0.	*	1		1255	156	.00	.00	.00	0.
1		0030	7	.01	.00	.00	0.	*	1		1300	157	.00	.00	.00	0.
1		0035	8	.01	.01	.00	0.	*	1		1305	158	.00	.00	.00	0.
1		0040	9	.01	.01	.00	1.	*	1		1310	159	.00	.00	.00	0.
1		0045	10	.01	.01	.00	1.	*	1		1315	160	.00	.00	.00	0.
1		0050	11	.01	.00	.00	1.	*	1		1320	161	.00	.00	.00	0.
1		0055	12	.01	.00	.00	1.	*	1		1325	162	.00	.00	.00	0.
1		0100	13	.01	.00	.00	1.	*	1		1330	163	.00	.00	.00	0.
1		0105	14	.01	.00	.00	1.	*	1		1335	164	.00	.00	.00	0.
1		0110	15	.01	.00	.00	1.	*	1		1340	165	.00	.00	.00	0.
1		0115	16	.01	.00	.00	1.	*	1		1345	166	.00	.00	.00	0.
1		0120	17	.01	.01	.00	1.	*	1		1350	167	.00	.00	.00	0.
1		0125	18	.01	.01	.00	1.	*	1		1355	168	.00	.00	.00	0.
1		0130	19	.01	.01	.00	1.	*	1		1400	169	.00	.00	.00	0.

1	0135	20	.01	.00	.00	1.	*	1	1405	170	.00	.00	.00	0.
1	0140	21	.01	.00	.00	1.	*	1	1410	171	.00	.00	.00	0.
1	0145	22	.01	.00	.00	1.	*	1	1415	172	.00	.00	.00	0.
1	0150	23	.01	.00	.00	1.	*	1	1420	173	.00	.00	.00	0.
1	0155	24	.01	.00	.00	1.	*	1	1425	174	.00	.00	.00	0.
1	0200	25	.01	.00	.00	1.	*	1	1430	175	.00	.00	.00	0.
1	0205	26	.01	.00	.00	1.	*	1	1435	176	.00	.00	.00	0.
1	0210	27	.01	.00	.00	1.	*	1	1440	177	.00	.00	.00	0.
1	0215	28	.01	.00	.00	1.	*	1	1445	178	.00	.00	.00	0.
1	0220	29	.01	.01	.00	1.	*	1	1450	179	.00	.00	.00	0.
1	0225	30	.01	.01	.00	1.	*	1	1455	180	.00	.00	.00	0.
1	0230	31	.01	.01	.00	1.	*	1	1500	181	.00	.00	.00	0.
1	0235	32	.01	.01	.00	1.	*	1	1505	182	.00	.00	.00	0.
1	0240	33	.01	.01	.00	1.	*	1	1510	183	.00	.00	.00	0.
1	0245	34	.01	.01	.00	1.	*	1	1515	184	.00	.00	.00	0.
1	0250	35	.01	.01	.00	1.	*	1	1520	185	.00	.00	.00	0.
1	0255	36	.01	.01	.00	1.	*	1	1525	186	.00	.00	.00	0.
1	0300	37	.01	.01	.00	1.	*	1	1530	187	.00	.00	.00	0.
1	0305	38	.01	.01	.00	2.	*	1	1535	188	.00	.00	.00	0.
1	0310	39	.01	.01	.00	2.	*	1	1540	189	.00	.00	.00	0.
1	0315	40	.01	.01	.00	2.	*	1	1545	190	.00	.00	.00	0.
1	0320	41	.05	.05	.01	2.	*	1	1550	191	.00	.00	.00	0.
1	0325	42	.05	.05	.01	2.	*	1	1555	192	.00	.00	.00	0.
1	0330	43	.05	.05	.01	3.	*	1	1600	193	.00	.00	.00	0.
1	0335	44	.11	.10	.01	3.	*	1	1605	194	.00	.00	.00	0.
1	0340	45	.11	.10	.01	4.	*	1	1610	195	.00	.00	.00	0.
1	0345	46	.11	.10	.01	5.	*	1	1615	196	.00	.00	.00	0.
1	0350	47	.30	.13	.18	8.	*	1	1620	197	.00	.00	.00	0.
1	0355	48	.30	.10	.20	15.	*	1	1625	198	.00	.00	.00	0.
1	0400	49	.30	.09	.21	30.	*	1	1630	199	.00	.00	.00	0.
1	0405	50	.05	.05	.01	54.	*	1	1635	200	.00	.00	.00	0.
1	0410	51	.05	.05	.01	80.	*	1	1640	201	.00	.00	.00	0.
1	0415	52	.05	.05	.01	99.	*	1	1645	202	.00	.00	.00	0.
1	0420	53	.01	.01	.00	104.	*	1	1650	203	.00	.00	.00	0.
1	0425	54	.01	.01	.00	101.	*	1	1655	204	.00	.00	.00	0.
1	0430	55	.01	.01	.00	96.	*	1	1700	205	.00	.00	.00	0.
1	0435	56	.01	.01	.00	88.	*	1	1705	206	.00	.00	.00	0.
1	0440	57	.01	.01	.00	80.	*	1	1710	207	.00	.00	.00	0.
1	0445	58	.01	.01	.00	70.	*	1	1715	208	.00	.00	.00	0.
1	0450	59	.01	.01	.00	61.	*	1	1720	209	.00	.00	.00	0.
1	0455	60	.01	.01	.00	53.	*	1	1725	210	.00	.00	.00	0.
1	0500	61	.01	.01	.00	46.	*	1	1730	211	.00	.00	.00	0.
1	0505	62	.01	.01	.00	40.	*	1	1735	212	.00	.00	.00	0.
1	0510	63	.01	.01	.00	35.	*	1	1740	213	.00	.00	.00	0.
1	0515	64	.01	.01	.00	31.	*	1	1745	214	.00	.00	.00	0.
1	0520	65	.01	.01	.00	27.	*	1	1750	215	.00	.00	.00	0.
1	0525	66	.01	.01	.00	23.	*	1	1755	216	.00	.00	.00	0.
1	0530	67	.01	.01	.00	20.	*	1	1800	217	.00	.00	.00	0.
1	0535	68	.01	.00	.00	18.	*	1	1805	218	.00	.00	.00	0.
1	0540	69	.01	.00	.00	16.	*	1	1810	219	.00	.00	.00	0.
1	0545	70	.01	.00	.00	14.	*	1	1815	220	.00	.00	.00	0.
1	0550	71	.01	.01	.00	12.	*	1	1820	221	.00	.00	.00	0.
1	0555	72	.01	.01	.00	11.	*	1	1825	222	.00	.00	.00	0.
1	0600	73	.01	.01	.00	9.	*	1	1830	223	.00	.00	.00	0.
1	0605	74	.00	.00	.00	8.	*	1	1835	224	.00	.00	.00	0.
1	0610	75	.00	.00	.00	7.	*	1	1840	225	.00	.00	.00	0.
1	0615	76	.00	.00	.00	6.	*	1	1845	226	.00	.00	.00	0.
1	0620	77	.00	.00	.00	6.	*	1	1850	227	.00	.00	.00	0.

1	0625	78	.00	.00	.00	5.	*	1	1855	228	.00	.00	.00	0.
1	0630	79	.00	.00	.00	4.	*	1	1900	229	.00	.00	.00	0.
1	0635	80	.00	.00	.00	4.	*	1	1905	230	.00	.00	.00	0.
1	0640	81	.00	.00	.00	3.	*	1	1910	231	.00	.00	.00	0.
1	0645	82	.00	.00	.00	3.	*	1	1915	232	.00	.00	.00	0.
1	0650	83	.00	.00	.00	2.	*	1	1920	233	.00	.00	.00	0.
1	0655	84	.00	.00	.00	2.	*	1	1925	234	.00	.00	.00	0.
1	0700	85	.00	.00	.00	2.	*	1	1930	235	.00	.00	.00	0.
1	0705	86	.00	.00	.00	2.	*	1	1935	236	.00	.00	.00	0.
1	0710	87	.00	.00	.00	1.	*	1	1940	237	.00	.00	.00	0.
1	0715	88	.00	.00	.00	1.	*	1	1945	238	.00	.00	.00	0.
1	0720	89	.00	.00	.00	1.	*	1	1950	239	.00	.00	.00	0.
1	0725	90	.00	.00	.00	0.	*	1	1955	240	.00	.00	.00	0.
1	0730	91	.00	.00	.00	0.	*	1	2000	241	.00	.00	.00	0.
1	0735	92	.00	.00	.00	0.	*	1	2005	242	.00	.00	.00	0.
1	0740	93	.00	.00	.00	0.	*	1	2010	243	.00	.00	.00	0.
1	0745	94	.00	.00	.00	0.	*	1	2015	244	.00	.00	.00	0.
1	0750	95	.00	.00	.00	0.	*	1	2020	245	.00	.00	.00	0.
1	0755	96	.00	.00	.00	0.	*	1	2025	246	.00	.00	.00	0.
1	0800	97	.00	.00	.00	0.	*	1	2030	247	.00	.00	.00	0.
1	0805	98	.00	.00	.00	0.	*	1	2035	248	.00	.00	.00	0.
1	0810	99	.00	.00	.00	0.	*	1	2040	249	.00	.00	.00	0.
1	0815	100	.00	.00	.00	0.	*	1	2045	250	.00	.00	.00	0.
1	0820	101	.00	.00	.00	0.	*	1	2050	251	.00	.00	.00	0.
1	0825	102	.00	.00	.00	0.	*	1	2055	252	.00	.00	.00	0.
1	0830	103	.00	.00	.00	0.	*	1	2100	253	.00	.00	.00	0.
1	0835	104	.00	.00	.00	0.	*	1	2105	254	.00	.00	.00	0.
1	0840	105	.00	.00	.00	0.	*	1	2110	255	.00	.00	.00	0.
1	0845	106	.00	.00	.00	0.	*	1	2115	256	.00	.00	.00	0.
1	0850	107	.00	.00	.00	0.	*	1	2120	257	.00	.00	.00	0.
1	0855	108	.00	.00	.00	0.	*	1	2125	258	.00	.00	.00	0.
1	0900	109	.00	.00	.00	0.	*	1	2130	259	.00	.00	.00	0.
1	0905	110	.00	.00	.00	0.	*	1	2135	260	.00	.00	.00	0.
1	0910	111	.00	.00	.00	0.	*	1	2140	261	.00	.00	.00	0.
1	0915	112	.00	.00	.00	0.	*	1	2145	262	.00	.00	.00	0.
1	0920	113	.00	.00	.00	0.	*	1	2150	263	.00	.00	.00	0.
1	0925	114	.00	.00	.00	0.	*	1	2155	264	.00	.00	.00	0.
1	0930	115	.00	.00	.00	0.	*	1	2200	265	.00	.00	.00	0.
1	0935	116	.00	.00	.00	0.	*	1	2205	266	.00	.00	.00	0.
1	0940	117	.00	.00	.00	0.	*	1	2210	267	.00	.00	.00	0.
1	0945	118	.00	.00	.00	0.	*	1	2215	268	.00	.00	.00	0.
1	0950	119	.00	.00	.00	0.	*	1	2220	269	.00	.00	.00	0.
1	0955	120	.00	.00	.00	0.	*	1	2225	270	.00	.00	.00	0.
1	1000	121	.00	.00	.00	0.	*	1	2230	271	.00	.00	.00	0.
1	1005	122	.00	.00	.00	0.	*	1	2235	272	.00	.00	.00	0.
1	1010	123	.00	.00	.00	0.	*	1	2240	273	.00	.00	.00	0.
1	1015	124	.00	.00	.00	0.	*	1	2245	274	.00	.00	.00	0.
1	1020	125	.00	.00	.00	0.	*	1	2250	275	.00	.00	.00	0.
1	1025	126	.00	.00	.00	0.	*	1	2255	276	.00	.00	.00	0.
1	1030	127	.00	.00	.00	0.	*	1	2300	277	.00	.00	.00	0.
1	1035	128	.00	.00	.00	0.	*	1	2305	278	.00	.00	.00	0.
1	1040	129	.00	.00	.00	0.	*	1	2310	279	.00	.00	.00	0.
1	1045	130	.00	.00	.00	0.	*	1	2315	280	.00	.00	.00	0.
1	1050	131	.00	.00	.00	0.	*	1	2320	281	.00	.00	.00	0.
1	1055	132	.00	.00	.00	0.	*	1	2325	282	.00	.00	.00	0.
1	1100	133	.00	.00	.00	0.	*	1	2330	283	.00	.00	.00	0.
1	1105	134	.00	.00	.00	0.	*	1	2335	284	.00	.00	.00	0.
1	1110	135	.00	.00	.00	0.	*	1	2340	285	.00	.00	.00	0.

1	1115	136	.00	.00	.00	0.	*	1	2345	286	.00	.00	.00	0.
1	1120	137	.00	.00	.00	0.	*	1	2350	287	.00	.00	.00	0.
1	1125	138	.00	.00	.00	0.	*	1	2355	288	.00	.00	.00	0.
1	1130	139	.00	.00	.00	0.	*	2	0000	289	.00	.00	.00	0.
1	1135	140	.00	.00	.00	0.	*	2	0005	290	.00	.00	.00	0.
1	1140	141	.00	.00	.00	0.	*	2	0010	291	.00	.00	.00	0.
1	1145	142	.00	.00	.00	0.	*	2	0015	292	.00	.00	.00	0.
1	1150	143	.00	.00	.00	0.	*	2	0020	293	.00	.00	.00	0.
1	1155	144	.00	.00	.00	0.	*	2	0025	294	.00	.00	.00	0.
1	1200	145	.00	.00	.00	0.	*	2	0030	295	.00	.00	.00	0.
1	1205	146	.00	.00	.00	0.	*	2	0035	296	.00	.00	.00	0.
1	1210	147	.00	.00	.00	0.	*	2	0040	297	.00	.00	.00	0.
1	1215	148	.00	.00	.00	0.	*	2	0045	298	.00	.00	.00	0.
1	1220	149	.00	.00	.00	0.	*	2	0050	299	.00	.00	.00	0.
1	1225	150	.00	.00	.00	0.	*	2	0055	300	.00	.00	.00	0.
							*							

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TOTAL RAINFALL = 1.99, TOTAL LOSS = 1.29, TOTAL EXCESS = .70

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
104.	4.33		19.	5.	5.	5.
		(INCHES)	.690	.695	.695	.695
		(AC-FT)	9.	9.	9.	9.

CUMULATIVE AREA = .25 SQ MI

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          **************
          *            *
104 KK    *    Node9   *
          *            *
          **************
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Route water through detention basin to remove subdivision storage

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111 KO        OUTPUT CONTROL VARIABLES
                    IPRNT          2  PRINT CONTROL
                    IPLOT          0  PLOT CONTROL
                    QSCAL         0.  HYDROGRAPH PLOT SCALE

            HYDROGRAPH ROUTING DATA

106 RS        STORAGE ROUTING
                    NSTPS          1  NUMBER OF SUBREACHES
                     ITYP       STOR  TYPE OF INITIAL CONDITION
                   RSVRIC        .00  INITIAL CONDITION
                        X        .00 WORKING R AND D COEFFICIENT

107 SV          STORAGE          .0      7.6      7.6      7.7      7.8
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108 SE          ELEVATION          .00     10.00     11.00     12.00     13.00

109 SL          LOW-LEVEL OUTLET
                     ELEVL          .00  ELEVATION AT CENTER OF OUTLET
                     CAREA         1.00  CROSS-SECTIONAL AREA
                      COQL          .60  COEFFICIENT
                      EXPL          .50  EXPONENT OF HEAD

110 SS          SPILLWAY
                      CREL        10.00  SPILLWAY CREST ELEVATION
                     SPWID        50.00  SPILLWAY WIDTH
                      COQW         2.70  WEIR COEFFICIENT
                      EXPW         1.50  EXPONENT OF HEAD
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COMPUTED OUTFLOW-ELEVATION DATA

OUTFLOW	.00	3.64	4.02	4.49	5.09	5.87	6.94	8.48	10.89	15.22
ELEVATION	.00	.57	.70	.87	1.12	1.49	2.08	3.10	5.12	10.00
OUTFLOW	15.98	21.07	34.65	60.91	104.04	168.20	257.58	376.36	528.72	718.83
ELEVATION	10.03	10.12	10.27	10.48	10.75	11.08	11.47	11.92	12.43	13.00

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	.43	.53	.66	.85	1.13	1.58	2.35	3.88	7.58
OUTFLOW	.00	3.64	4.02	4.49	5.09	5.87	6.94	8.48	10.89	15.22
ELEVATION	.00	.57	.70	.87	1.12	1.49	2.08	3.10	5.12	10.00
STORAGE	7.58	7.58	7.59	7.59	7.60	7.60	7.61	7.65	7.69	7.70
OUTFLOW	15.98	21.07	34.65	60.91	104.04	150.96	168.20	257.58	376.36	398.51
ELEVATION	10.03	10.12	10.27	10.48	10.75	11.00	11.08	11.47	11.92	12.00
STORAGE	7.74	7.80								
OUTFLOW	528.72	718.83								
ELEVATION	12.43	13.00								

** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 15. TO 719.
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

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HYDROGRAPH AT STATION Node9

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DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	.0	1		0820	101	12.	4.6	6.1	1		1640	201	1.	.1	.2
1		0005	2	0.	.0	.0	1		0825	102	12.	4.6	6.0	1		1645	202	1.	.1	.2
1		0010	3	0.	.0	.0	1		0830	103	12.	4.5	5.9	1		1650	203	1.	.1	.1
1		0015	4	0.	.0	.0	1		0835	104	11.	4.4	5.8	1		1655	204	1.	.1	.1
1		0020	5	0.	.0	.0	1		0840	105	11.	4.3	5.7	1		1700	205	1.	.1	.1
1		0025	6	0.	.0	.0	1		0845	106	11.	4.2	5.6	1		1705	206	1.	.1	.1
1		0030	7	0.	.0	.0	1		0850	107	11.	4.2	5.5	1		1710	207	1.	.1	.1

1	0035	8	0.	.0	.0	*	1	0855	108	11.	4.1	5.4	*	1	1715	208	1.	.1	.1
1	0040	9	0.	.0	.0	*	1	0900	109	11.	4.0	5.3	*	1	1720	209	1.	.1	.1
1	0045	10	0.	.0	.0	*	1	0905	110	11.	3.9	5.2	*	1	1725	210	1.	.1	.1
1	0050	11	0.	.0	.0	*	1	0910	111	11.	3.9	5.1	*	1	1730	211	1.	.1	.1
1	0055	12	0.	.0	.0	*	1	0915	112	11.	3.8	5.0	*	1	1735	212	1.	.1	.1
1	0100	13	0.	.0	.0	*	1	0920	113	11.	3.7	4.9	*	1	1740	213	1.	.1	.1
1	0105	14	0.	.0	.0	*	1	0925	114	11.	3.6	4.8	*	1	1745	214	1.	.1	.1
1	0110	15	0.	.0	.0	*	1	0930	115	10.	3.6	4.7	*	1	1750	215	0.	.1	.1
1	0115	16	0.	.0	.0	*	1	0935	116	10.	3.5	4.6	*	1	1755	216	0.	.1	.1
1	0120	17	0.	.0	.1	*	1	0940	117	10.	3.4	4.5	*	1	1800	217	0.	.1	.1
1	0125	18	0.	.0	.1	*	1	0945	118	10.	3.4	4.4	*	1	1805	218	0.	.0	.1
1	0130	19	0.	.0	.1	*	1	0950	119	10.	3.3	4.3	*	1	1810	219	0.	.0	.1
1	0135	20	0.	.1	.1	*	1	0955	120	10.	3.2	4.2	*	1	1815	220	0.	.0	.1
1	0140	21	0.	.1	.1	*	1	1000	121	10.	3.1	4.2	*	1	1820	221	0.	.0	.1
1	0145	22	0.	.1	.1	*	1	1005	122	10.	3.1	4.1	*	1	1825	222	0.	.0	.0
1	0150	23	1.	.1	.1	*	1	1010	123	10.	3.0	4.0	*	1	1830	223	0.	.0	.0
1	0155	24	1.	.1	.1	*	1	1015	124	9.	3.0	3.9	*	1	1835	224	0.	.0	.0
1	0200	25	1.	.1	.1	*	1	1020	125	9.	2.9	3.8	*	1	1840	225	0.	.0	.0
1	0205	26	1.	.1	.1	*	1	1025	126	9.	2.8	3.7	*	1	1845	226	0.	.0	.0
1	0210	27	1.	.1	.1	*	1	1030	127	9.	2.8	3.6	*	1	1850	227	0.	.0	.0
1	0215	28	1.	.1	.1	*	1	1035	128	9.	2.7	3.6	*	1	1855	228	0.	.0	.0
1	0220	29	1.	.1	.1	*	1	1040	129	9.	2.6	3.5	*	1	1900	229	0.	.0	.0
1	0225	30	1.	.1	.1	*	1	1045	130	9.	2.6	3.4	*	1	1905	230	0.	.0	.0
1	0230	31	1.	.1	.1	*	1	1050	131	9.	2.5	3.3	*	1	1910	231	0.	.0	.0
1	0235	32	1.	.1	.1	*	1	1055	132	9.	2.5	3.2	*	1	1915	232	0.	.0	.0
1	0240	33	1.	.1	.1	*	1	1100	133	9.	2.4	3.2	*	1	1920	233	0.	.0	.0
1	0245	34	1.	.1	.1	*	1	1105	134	8.	2.3	3.1	*	1	1925	234	0.	.0	.0
1	0250	35	1.	.1	.1	*	1	1110	135	8.	2.3	3.0	*	1	1930	235	0.	.0	.0
1	0255	36	1.	.1	.1	*	1	1115	136	8.	2.2	2.9	*	1	1935	236	0.	.0	.0
1	0300	37	1.	.1	.1	*	1	1120	137	8.	2.2	2.9	*	1	1940	237	0.	.0	.0
1	0305	38	1.	.1	.1	*	1	1125	138	8.	2.1	2.8	*	1	1945	238	0.	.0	.0
1	0310	39	1.	.1	.2	*	1	1130	139	8.	2.1	2.7	*	1	1950	239	0.	.0	.0
1	0315	40	1.	.1	.2	*	1	1135	140	8.	2.0	2.6	*	1	1955	240	0.	.0	.0
1	0320	41	1.	.1	.2	*	1	1140	141	8.	1.9	2.6	*	1	2000	241	0.	.0	.0
1	0325	42	1.	.1	.2	*	1	1145	142	8.	1.9	2.5	*	1	2005	242	0.	.0	.0
1	0330	43	1.	.1	.2	*	1	1150	143	7.	1.8	2.4	*	1	2010	243	0.	.0	.0
1	0335	44	1.	.2	.2	*	1	1155	144	7.	1.8	2.4	*	1	2015	244	0.	.0	.0
1	0340	45	1.	.2	.2	*	1	1200	145	7.	1.7	2.3	*	1	2020	245	0.	.0	.0
1	0345	46	2.	.2	.3	*	1	1205	146	7.	1.7	2.2	*	1	2025	246	0.	.0	.0
1	0350	47	2.	.2	.3	*	1	1210	147	7.	1.6	2.2	*	1	2030	247	0.	.0	.0
1	0355	48	2.	.3	.4	*	1	1215	148	7.	1.6	2.1	*	1	2035	248	0.	.0	.0
1	0400	49	4.	.4	.6	*	1	1220	149	7.	1.5	2.0	*	1	2040	249	0.	.0	.0
1	0405	50	5.	.7	.9	*	1	1225	150	7.	1.5	2.0	*	1	2045	250	0.	.0	.0
1	0410	51	6.	1.1	1.5	*	1	1230	151	7.	1.5	1.9	*	1	2050	251	0.	.0	.0
1	0415	52	7.	1.7	2.2	*	1	1235	152	7.	1.4	1.9	*	1	2055	252	0.	.0	.0
1	0420	53	8.	2.3	3.1	*	1	1240	153	6.	1.4	1.8	*	1	2100	253	0.	.0	.0
1	0425	54	9.	3.0	3.9	*	1	1245	154	6.	1.3	1.7	*	1	2105	254	0.	.0	.0
1	0430	55	10.	3.6	4.7	*	1	1250	155	6.	1.3	1.7	*	1	2110	255	0.	.0	.0
1	0435	56	11.	4.2	5.5	*	1	1255	156	6.	1.2	1.6	*	1	2115	256	0.	.0	.0
1	0440	57	12.	4.7	6.1	*	1	1300	157	6.	1.2	1.6	*	1	2120	257	0.	.0	.0
1	0445	58	12.	5.1	6.7	*	1	1305	158	6.	1.2	1.5	*	1	2125	258	0.	.0	.0
1	0450	59	13.	5.5	7.2	*	1	1310	159	6.	1.1	1.5	*	1	2130	259	0.	.0	.0
1	0455	60	13.	5.8	7.6	*	1	1315	160	6.	1.1	1.4	*	1	2135	260	0.	.0	.0
1	0500	61	13.	6.0	7.9	*	1	1320	161	6.	1.0	1.4	*	1	2140	261	0.	.0	.0
1	0505	62	14.	6.2	8.2	*	1	1325	162	5.	1.0	1.3	*	1	2145	262	0.	.0	.0
1	0510	63	14.	6.4	8.4	*	1	1330	163	5.	1.0	1.3	*	1	2150	263	0.	.0	.0
1	0515	64	14.	6.5	8.6	*	1	1335	164	5.	.9	1.2	*	1	2155	264	0.	.0	.0
1	0520	65	14.	6.6	8.7	*	1	1340	165	5.	.9	1.2	*	1	2200	265	0.	.0	.0

1	0525	66	14.	6.7	8.8	*	1	1345	166	5.	.8	1.1	*	1	2205	266	0.	.0	.0
1	0530	67	14.	6.7	8.9	*	1	1350	167	5.	.8	1.1	*	1	2210	267	0.	.0	.0
1	0535	68	14.	6.8	8.9	*	1	1355	168	5.	.8	1.0	*	1	2215	268	0.	.0	.0
1	0540	69	14.	6.8	9.0	*	1	1400	169	5.	.7	1.0	*	1	2220	269	0.	.0	.0
1	0545	70	14.	6.8	9.0	*	1	1405	170	5.	.7	.9	*	1	2225	270	0.	.0	.0
1	0550	71	14.	6.8	8.9	*	1	1410	171	5.	.7	.9	*	1	2230	271	0.	.0	.0
1	0555	72	14.	6.8	8.9	*	1	1415	172	4.	.7	.9	*	1	2235	272	0.	.0	.0
1	0600	73	14.	6.7	8.9	*	1	1420	173	4.	.6	.8	*	1	2240	273	0.	.0	.0
1	0605	74	14.	6.7	8.8	*	1	1425	174	4.	.6	.8	*	1	2245	274	0.	.0	.0
1	0610	75	14.	6.7	8.8	*	1	1430	175	4.	.6	.7	*	1	2250	275	0.	.0	.0
1	0615	76	14.	6.6	8.7	*	1	1435	176	4.	.5	.7	*	1	2255	276	0.	.0	.0
1	0620	77	14.	6.5	8.6	*	1	1440	177	4.	.5	.7	*	1	2300	277	0.	.0	.0
1	0625	78	14.	6.5	8.6	*	1	1445	178	4.	.5	.6	*	1	2305	278	0.	.0	.0
1	0630	79	14.	6.4	8.5	*	1	1450	179	4.	.5	.6	*	1	2310	279	0.	.0	.0
1	0635	80	14.	6.4	8.4	*	1	1455	180	4.	.4	.6	*	1	2315	280	0.	.0	.0
1	0640	81	14.	6.3	8.3	*	1	1500	181	3.	.4	.5	*	1	2320	281	0.	.0	.0
1	0645	82	14.	6.2	8.2	*	1	1505	182	3.	.4	.5	*	1	2325	282	0.	.0	.0
1	0650	83	14.	6.1	8.1	*	1	1510	183	3.	.4	.5	*	1	2330	283	0.	.0	.0
1	0655	84	13.	6.1	8.0	*	1	1515	184	3.	.3	.4	*	1	2335	284	0.	.0	.0
1	0700	85	13.	6.0	7.9	*	1	1520	185	3.	.3	.4	*	1	2340	285	0.	.0	.0
1	0705	86	13.	5.9	7.8	*	1	1525	186	3.	.3	.4	*	1	2345	286	0.	.0	.0
1	0710	87	13.	5.8	7.7	*	1	1530	187	2.	.3	.4	*	1	2350	287	0.	.0	.0
1	0715	88	13.	5.7	7.6	*	1	1535	188	2.	.3	.4	*	1	2355	288	0.	.0	.0
1	0720	89	13.	5.6	7.4	*	1	1540	189	2.	.3	.3	*	2	0000	289	0.	.0	.0
1	0725	90	13.	5.6	7.3	*	1	1545	190	2.	.2	.3	*	2	0005	290	0.	.0	.0
1	0730	91	13.	5.5	7.2	*	1	1550	191	2.	.2	.3	*	2	0010	291	0.	.0	.0
1	0735	92	13.	5.4	7.1	*	1	1555	192	2.	.2	.3	*	2	0015	292	0.	.0	.0
1	0740	93	13.	5.3	7.0	*	1	1600	193	2.	.2	.3	*	2	0020	293	0.	.0	.0
1	0745	94	12.	5.2	6.9	*	1	1605	194	2.	.2	.3	*	2	0025	294	0.	.0	.0
1	0750	95	12.	5.1	6.8	*	1	1610	195	2.	.2	.2	*	2	0030	295	0.	.0	.0
1	0755	96	12.	5.0	6.7	*	1	1615	196	1.	.2	.2	*	2	0035	296	0.	.0	.0
1	0800	97	12.	5.0	6.5	*	1	1620	197	1.	.2	.2	*	2	0040	297	0.	.0	.0
1	0805	98	12.	4.9	6.4	*	1	1625	198	1.	.2	.2	*	2	0045	298	0.	.0	.0
1	0810	99	12.	4.8	6.3	*	1	1630	199	1.	.1	.2	*	2	0050	299	0.	.0	.0
1	0815	100	12.	4.7	6.2	*	1	1635	200	1.	.1	.2	*	2	0055	300	0.	.0	.0
						*							*						

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
14.	5.75		12.	5.	5.	5.
		(INCHES)	.452	.695	.695	.695
		(AC-FT)	6.	9.	9.	9.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
7.	5.75	5.	2.	2.	2.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
8.96	5.75	6.72	2.12	2.05	2.05

CUMULATIVE AREA = .25 SQ MI

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          *            *
112 KK    *   Node15   *
          *            *
          **************
                    confluence g1-g2-g3 with g4

115 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          2  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL         0.  HYDROGRAPH PLOT SCALE

114 HC          HYDROGRAPH COMBINATION
                     ICOMP          2  NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION . Node15
SUM OF 2 HYDROGRAPHS

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	49.	1		1230	151	7.	1		1845	226	0.
1		0005	2	0.	1		0620	77	47.	1		1235	152	7.	1		1850	227	0.
1		0010	3	0.	1		0625	78	44.	1		1240	153	6.	1		1855	228	0.
1		0015	4	0.	1		0630	79	41.	1		1245	154	6.	1		1900	229	0.
1		0020	5	0.	1		0635	80	39.	1		1250	155	6.	1		1905	230	0.
1		0025	6	0.	1		0640	81	37.	1		1255	156	6.	1		1910	231	0.
1		0030	7	0.	1		0645	82	35.	1		1300	157	6.	1		1915	232	0.
1		0035	8	0.	1		0650	83	34.	1		1305	158	6.	1		1920	233	0.
1		0040	9	0.	1		0655	84	33.	1		1310	159	6.	1		1925	234	0.
1		0045	10	0.	1		0700	85	31.	1		1315	160	6.	1		1930	235	0.
1		0050	11	0.	1		0705	86	30.	1		1320	161	6.	1		1935	236	0.
1		0055	12	0.	1		0710	87	28.	1		1325	162	5.	1		1940	237	0.
1		0100	13	0.	1		0715	88	27.	1		1330	163	5.	1		1945	238	0.
1		0105	14	0.	1		0720	89	26.	1		1335	164	5.	1		1950	239	0.
1		0110	15	1.	1		0725	90	25.	1		1340	165	5.	1		1955	240	0.
1		0115	16	1.	1		0730	91	24.	1		1345	166	5.	1		2000	241	0.
1		0120	17	1.	1		0735	92	23.	1		1350	167	5.	1		2005	242	0.
1		0125	18	1.	1		0740	93	22.	1		1355	168	5.	1		2010	243	0.
1		0130	19	1.	1		0745	94	21.	1		1400	169	5.	1		2015	244	0.
1		0135	20	1.	1		0750	95	20.	1		1405	170	5.	1		2020	245	0.
1		0140	21	1.	1		0755	96	19.	1		1410	171	5.	1		2025	246	0.
1		0145	22	1.	1		0800	97	19.	1		1415	172	4.	1		2030	247	0.
1		0150	23	1.	1		0805	98	18.	1		1420	173	4.	1		2035	248	0.
1		0155	24	1.	1		0810	99	18.	1		1425	174	4.	1		2040	249	0.
1		0200	25	1.	1		0815	100	18.	1		1430	175	4.	1		2045	250	0.
1		0205	26	1.	1		0820	101	17.	1		1435	176	4.	1		2050	251	0.

1	0210	27	1.	*	1	0825	102	17.	*	1	1440	177	4.	*	1	2055	252	0.
1	0215	28	2.	*	1	0830	103	16.	*	1	1445	178	4.	*	1	2100	253	0.
1	0220	29	2.	*	1	0835	104	16.	*	1	1450	179	4.	*	1	2105	254	0.
1	0225	30	2.	*	1	0840	105	16.	*	1	1455	180	4.	*	1	2110	255	0.
1	0230	31	2.	*	1	0845	106	15.	*	1	1500	181	3.	*	1	2115	256	0.
1	0235	32	2.	*	1	0850	107	15.	*	1	1505	182	3.	*	1	2120	257	0.
1	0240	33	2.	*	1	0855	108	14.	*	1	1510	183	3.	*	1	2125	258	0.
1	0245	34	2.	*	1	0900	109	14.	*	1	1515	184	3.	*	1	2130	259	0.
1	0250	35	2.	*	1	0905	110	14.	*	1	1520	185	3.	*	1	2135	260	0.
1	0255	36	2.	*	1	0910	111	13.	*	1	1525	186	3.	*	1	2140	261	0.
1	0300	37	2.	*	1	0915	112	13.	*	1	1530	187	2.	*	1	2145	262	0.
1	0305	38	2.	*	1	0920	113	13.	*	1	1535	188	2.	*	1	2150	263	0.
1	0310	39	2.	*	1	0925	114	12.	*	1	1540	189	2.	*	1	2155	264	0.
1	0315	40	2.	*	1	0930	115	12.	*	1	1545	190	2.	*	1	2200	265	0.
1	0320	41	2.	*	1	0935	116	12.	*	1	1550	191	2.	*	1	2205	266	0.
1	0325	42	2.	*	1	0940	117	12.	*	1	1555	192	2.	*	1	2210	267	0.
1	0330	43	2.	*	1	0945	118	11.	*	1	1600	193	2.	*	1	2215	268	0.
1	0335	44	3.	*	1	0950	119	11.	*	1	1605	194	2.	*	1	2220	269	0.
1	0340	45	3.	*	1	0955	120	11.	*	1	1610	195	2.	*	1	2225	270	0.
1	0345	46	3.	*	1	1000	121	11.	*	1	1615	196	1.	*	1	2230	271	0.
1	0350	47	4.	*	1	1005	122	10.	*	1	1620	197	1.	*	1	2235	272	0.
1	0355	48	4.	*	1	1010	123	10.	*	1	1625	198	1.	*	1	2240	273	0.
1	0400	49	6.	*	1	1015	124	10.	*	1	1630	199	1.	*	1	2245	274	0.
1	0405	50	8.	*	1	1020	125	10.	*	1	1635	200	1.	*	1	2250	275	0.
1	0410	51	12.	*	1	1025	126	9.	*	1	1640	201	1.	*	1	2255	276	0.
1	0415	52	20.	*	1	1030	127	9.	*	1	1645	202	1.	*	1	2300	277	0.
1	0420	53	31.	*	1	1035	128	9.	*	1	1650	203	1.	*	1	2305	278	0.
1	0425	54	47.	*	1	1040	129	9.	*	1	1655	204	1.	*	1	2310	279	0.
1	0430	55	65.	*	1	1045	130	9.	*	1	1700	205	1.	*	1	2315	280	0.
1	0435	56	83.	*	1	1050	131	9.	*	1	1705	206	1.	*	1	2320	281	0.
1	0440	57	97.	*	1	1055	132	9.	*	1	1710	207	1.	*	1	2325	282	0.
1	0445	58	105.	*	1	1100	133	9.	*	1	1715	208	1.	*	1	2330	283	0.
1	0450	59	108.	*	1	1105	134	8.	*	1	1720	209	1.	*	1	2335	284	0.
1	0455	60	108.	*	1	1110	135	8.	*	1	1725	210	1.	*	1	2340	285	0.
1	0500	61	107.	*	1	1115	136	8.	*	1	1730	211	1.	*	1	2345	286	0.
1	0505	62	104.	*	1	1120	137	8.	*	1	1735	212	1.	*	1	2350	287	0.
1	0510	63	101.	*	1	1125	138	8.	*	1	1740	213	1.	*	1	2355	288	0.
1	0515	64	98.	*	1	1130	139	8.	*	1	1745	214	1.	*	2	0000	289	0.
1	0520	65	94.	*	1	1135	140	8.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	90.	*	1	1140	141	8.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	85.	*	1	1145	142	8.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	80.	*	1	1150	143	7.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	75.	*	1	1155	144	7.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	70.	*	1	1200	145	7.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	66.	*	1	1205	146	7.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	62.	*	1	1210	147	7.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	59.	*	1	1215	148	7.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	56.	*	1	1220	149	7.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	53.	*	1	1225	150	7.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)					
		(CFS)				
108.	4.92		40.	12.	11.	11.
		(INCHES)	.523	.617	.617	.617

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                    (AC-FT)       20.         24.         24.         24.

                    CUMULATIVE AREA =     .71 SQ MI


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


          **************
          *            *
116 KK    *   Develo   *     pe rainfall for phase 2 area
          *            *
          **************
                      6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
                      THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
                     L =  .072  Kb = .064  Adj. Slope =   9.9

126 KO          OUTPUT CONTROL VARIABLES
                      IPRNT           2  PRINT CONTROL
                      IPLOT           0  PLOT CONTROL
                      QSCAL          0.  HYDROGRAPH PLOT SCALE

              SUBBASIN RUNOFF DATA

120 BA          SUBBASIN CHARACTERISTICS
                      TAREA         .04  SUBBASIN AREA

                PRECIPITATION DATA

121 PB                STORM        1.99  BASIN TOTAL PRECIPITATION

 11 PI            INCREMENTAL PRECIPITATION PATTERN
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00       .00       .01       .01       .01       .01       .01       .01       .03
                     .03       .03       .05       .05       .05       .15       .15       .15       .03       .03
                     .03       .01       .01       .01       .01       .01       .01       .00       .00       .00
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00

122 LG          GREEN AND AMPT LOSS RATE
                      STRTL         .43  STARTING LOSS
                        DTH         .25  MOISTURE DEFICIT
                       PSIF        3.50  WETTING FRONT SUCTION
                      XKSAT         .51  HYDRAULIC CONDUCTIVITY
                      RTIMP         .00  PERCENT IMPERVIOUS AREA

123 UC          CLARK UNITGRAPH
                         TC        1.09  TIME OF CONCENTRATION
                          R        1.03  STORAGE COEFFICIENT

124 UA          ACCUMULATED-AREA VS. TIME,  11 ORDINATES
                        .0       5.0      16.0      30.0      65.0      77.0      84.0      90.0      94.0      97.0
                     100.0
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UNIT HYDROGRAPH PARAMETERS

CLARK TC= 1.09 HR, R= 1.03 HR

SNYDER TP= .67 HR, CP= .40

UNIT HYDROGRAPH

71 END-OF-PERIOD ORDINATES

0.	2.	4.	6.	11.	15.	17.	17.	17.	17.
16.	15.	15.	14.	13.	12.	11.	10.	9.	9.
8.	7.	7.	6.	6.	5.	5.	5.	4.	4.
4.	3.	3.	3.	3.	2.	2.	2.	2.	2.
2.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.									

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HYDROGRAPH AT STATION Develo

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1		0000	1	.00	.00	.00	0.	*	1		1230	151	.00	.00	.00	0.
1		0005	2	.01	.01	.00	0.	*	1		1235	152	.00	.00	.00	0.
1		0010	3	.01	.01	.00	0.	*	1		1240	153	.00	.00	.00	0.
1		0015	4	.01	.01	.00	0.	*	1		1245	154	.00	.00	.00	0.
1		0020	5	.01	.01	.00	0.	*	1		1250	155	.00	.00	.00	0.
1		0025	6	.01	.01	.00	0.	*	1		1255	156	.00	.00	.00	0.
1		0030	7	.01	.01	.00	0.	*	1		1300	157	.00	.00	.00	0.
1		0035	8	.01	.01	.00	0.	*	1		1305	158	.00	.00	.00	0.
1		0040	9	.01	.01	.00	0.	*	1		1310	159	.00	.00	.00	0.
1		0045	10	.01	.01	.00	0.	*	1		1315	160	.00	.00	.00	0.
1		0050	11	.01	.01	.00	0.	*	1		1320	161	.00	.00	.00	0.
1		0055	12	.01	.01	.00	0.	*	1		1325	162	.00	.00	.00	0.
1		0100	13	.01	.01	.00	0.	*	1		1330	163	.00	.00	.00	0.
1		0105	14	.01	.01	.00	0.	*	1		1335	164	.00	.00	.00	0.
1		0110	15	.01	.01	.00	0.	*	1		1340	165	.00	.00	.00	0.
1		0115	16	.01	.01	.00	0.	*	1		1345	166	.00	.00	.00	0.
1		0120	17	.01	.01	.00	0.	*	1		1350	167	.00	.00	.00	0.
1		0125	18	.01	.01	.00	0.	*	1		1355	168	.00	.00	.00	0.
1		0130	19	.01	.01	.00	0.	*	1		1400	169	.00	.00	.00	0.
1		0135	20	.01	.01	.00	0.	*	1		1405	170	.00	.00	.00	0.
1		0140	21	.01	.01	.00	0.	*	1		1410	171	.00	.00	.00	0.
1		0145	22	.01	.01	.00	0.	*	1		1415	172	.00	.00	.00	0.
1		0150	23	.01	.01	.00	0.	*	1		1420	173	.00	.00	.00	0.
1		0155	24	.01	.01	.00	0.	*	1		1425	174	.00	.00	.00	0.
1		0200	25	.01	.01	.00	0.	*	1		1430	175	.00	.00	.00	0.
1		0205	26	.01	.01	.00	0.	*	1		1435	176	.00	.00	.00	0.
1		0210	27	.01	.01	.00	0.	*	1		1440	177	.00	.00	.00	0.
1		0215	28	.01	.01	.00	0.	*	1		1445	178	.00	.00	.00	0.
1		0220	29	.01	.01	.00	0.	*	1		1450	179	.00	.00	.00	0.
1		0225	30	.01	.01	.00	0.	*	1		1455	180	.00	.00	.00	0.
1		0230	31	.01	.01	.00	0.	*	1		1500	181	.00	.00	.00	0.
1		0235	32	.01	.01	.00	0.	*	1		1505	182	.00	.00	.00	0.
1		0240	33	.01	.01	.00	0.	*	1		1510	183	.00	.00	.00	0.

1	0245	34	.01	.01	.00	0.	*	1	1515	184	.00	.00	.00	0.
1	0250	35	.01	.01	.00	0.	*	1	1520	185	.00	.00	.00	0.
1	0255	36	.01	.01	.00	0.	*	1	1525	186	.00	.00	.00	0.
1	0300	37	.01	.01	.00	0.	*	1	1530	187	.00	.00	.00	0.
1	0305	38	.01	.01	.00	0.	*	1	1535	188	.00	.00	.00	0.
1	0310	39	.01	.01	.00	0.	*	1	1540	189	.00	.00	.00	0.
1	0315	40	.01	.01	.00	0.	*	1	1545	190	.00	.00	.00	0.
1	0320	41	.05	.05	.00	0.	*	1	1550	191	.00	.00	.00	0.
1	0325	42	.05	.05	.00	0.	*	1	1555	192	.00	.00	.00	0.
1	0330	43	.05	.05	.00	0.	*	1	1600	193	.00	.00	.00	0.
1	0335	44	.11	.11	.00	0.	*	1	1605	194	.00	.00	.00	0.
1	0340	45	.11	.11	.00	0.	*	1	1610	195	.00	.00	.00	0.
1	0345	46	.11	.11	.00	0.	*	1	1615	196	.00	.00	.00	0.
1	0350	47	.30	.14	.16	0.	*	1	1620	197	.00	.00	.00	0.
1	0355	48	.30	.12	.19	0.	*	1	1625	198	.00	.00	.00	0.
1	0400	49	.30	.10	.20	1.	*	1	1630	199	.00	.00	.00	0.
1	0405	50	.05	.05	.00	2.	*	1	1635	200	.00	.00	.00	0.
1	0410	51	.05	.05	.00	4.	*	1	1640	201	.00	.00	.00	0.
1	0415	52	.05	.05	.00	6.	*	1	1645	202	.00	.00	.00	0.
1	0420	53	.01	.01	.00	8.	*	1	1650	203	.00	.00	.00	0.
1	0425	54	.01	.01	.00	9.	*	1	1655	204	.00	.00	.00	0.
1	0430	55	.01	.01	.00	9.	*	1	1700	205	.00	.00	.00	0.
1	0435	56	.01	.01	.00	9.	*	1	1705	206	.00	.00	.00	0.
1	0440	57	.01	.01	.00	9.	*	1	1710	207	.00	.00	.00	0.
1	0445	58	.01	.01	.00	9.	*	1	1715	208	.00	.00	.00	0.
1	0450	59	.01	.01	.00	9.	*	1	1720	209	.00	.00	.00	0.
1	0455	60	.01	.01	.00	8.	*	1	1725	210	.00	.00	.00	0.
1	0500	61	.01	.01	.00	8.	*	1	1730	211	.00	.00	.00	0.
1	0505	62	.01	.01	.00	7.	*	1	1735	212	.00	.00	.00	0.
1	0510	63	.01	.01	.00	7.	*	1	1740	213	.00	.00	.00	0.
1	0515	64	.01	.01	.00	6.	*	1	1745	214	.00	.00	.00	0.
1	0520	65	.01	.01	.00	6.	*	1	1750	215	.00	.00	.00	0.
1	0525	66	.01	.01	.00	5.	*	1	1755	216	.00	.00	.00	0.
1	0530	67	.01	.01	.00	5.	*	1	1800	217	.00	.00	.00	0.
1	0535	68	.01	.01	.00	4.	*	1	1805	218	.00	.00	.00	0.
1	0540	69	.01	.01	.00	4.	*	1	1810	219	.00	.00	.00	0.
1	0545	70	.01	.01	.00	4.	*	1	1815	220	.00	.00	.00	0.
1	0550	71	.01	.01	.00	3.	*	1	1820	221	.00	.00	.00	0.
1	0555	72	.01	.01	.00	3.	*	1	1825	222	.00	.00	.00	0.
1	0600	73	.01	.01	.00	3.	*	1	1830	223	.00	.00	.00	0.
1	0605	74	.00	.00	.00	3.	*	1	1835	224	.00	.00	.00	0.
1	0610	75	.00	.00	.00	2.	*	1	1840	225	.00	.00	.00	0.
1	0615	76	.00	.00	.00	2.	*	1	1845	226	.00	.00	.00	0.
1	0620	77	.00	.00	.00	2.	*	1	1850	227	.00	.00	.00	0.
1	0625	78	.00	.00	.00	2.	*	1	1855	228	.00	.00	.00	0.
1	0630	79	.00	.00	.00	2.	*	1	1900	229	.00	.00	.00	0.
1	0635	80	.00	.00	.00	2.	*	1	1905	230	.00	.00	.00	0.
1	0640	81	.00	.00	.00	2.	*	1	1910	231	.00	.00	.00	0.
1	0645	82	.00	.00	.00	1.	*	1	1915	232	.00	.00	.00	0.
1	0650	83	.00	.00	.00	1.	*	1	1920	233	.00	.00	.00	0.
1	0655	84	.00	.00	.00	1.	*	1	1925	234	.00	.00	.00	0.
1	0700	85	.00	.00	.00	1.	*	1	1930	235	.00	.00	.00	0.
1	0705	86	.00	.00	.00	1.	*	1	1935	236	.00	.00	.00	0.
1	0710	87	.00	.00	.00	1.	*	1	1940	237	.00	.00	.00	0.
1	0715	88	.00	.00	.00	1.	*	1	1945	238	.00	.00	.00	0.
1	0720	89	.00	.00	.00	1.	*	1	1950	239	.00	.00	.00	0.
1	0725	90	.00	.00	.00	1.	*	1	1955	240	.00	.00	.00	0.
1	0730	91	.00	.00	.00	1.	*	1	2000	241	.00	.00	.00	0.

1	0735	92	.00	.00	.00	1.	*	1	2005	242	.00	.00	.00	0.
1	0740	93	.00	.00	.00	1.	*	1	2010	243	.00	.00	.00	0.
1	0745	94	.00	.00	.00	1.	*	1	2015	244	.00	.00	.00	0.
1	0750	95	.00	.00	.00	0.	*	1	2020	245	.00	.00	.00	0.
1	0755	96	.00	.00	.00	0.	*	1	2025	246	.00	.00	.00	0.
1	0800	97	.00	.00	.00	0.	*	1	2030	247	.00	.00	.00	0.
1	0805	98	.00	.00	.00	0.	*	1	2035	248	.00	.00	.00	0.
1	0810	99	.00	.00	.00	0.	*	1	2040	249	.00	.00	.00	0.
1	0815	100	.00	.00	.00	0.	*	1	2045	250	.00	.00	.00	0.
1	0820	101	.00	.00	.00	0.	*	1	2050	251	.00	.00	.00	0.
1	0825	102	.00	.00	.00	0.	*	1	2055	252	.00	.00	.00	0.
1	0830	103	.00	.00	.00	0.	*	1	2100	253	.00	.00	.00	0.
1	0835	104	.00	.00	.00	0.	*	1	2105	254	.00	.00	.00	0.
1	0840	105	.00	.00	.00	0.	*	1	2110	255	.00	.00	.00	0.
1	0845	106	.00	.00	.00	0.	*	1	2115	256	.00	.00	.00	0.
1	0850	107	.00	.00	.00	0.	*	1	2120	257	.00	.00	.00	0.
1	0855	108	.00	.00	.00	0.	*	1	2125	258	.00	.00	.00	0.
1	0900	109	.00	.00	.00	0.	*	1	2130	259	.00	.00	.00	0.
1	0905	110	.00	.00	.00	0.	*	1	2135	260	.00	.00	.00	0.
1	0910	111	.00	.00	.00	0.	*	1	2140	261	.00	.00	.00	0.
1	0915	112	.00	.00	.00	0.	*	1	2145	262	.00	.00	.00	0.
1	0920	113	.00	.00	.00	0.	*	1	2150	263	.00	.00	.00	0.
1	0925	114	.00	.00	.00	0.	*	1	2155	264	.00	.00	.00	0.
1	0930	115	.00	.00	.00	0.	*	1	2200	265	.00	.00	.00	0.
1	0935	116	.00	.00	.00	0.	*	1	2205	266	.00	.00	.00	0.
1	0940	117	.00	.00	.00	0.	*	1	2210	267	.00	.00	.00	0.
1	0945	118	.00	.00	.00	0.	*	1	2215	268	.00	.00	.00	0.
1	0950	119	.00	.00	.00	0.	*	1	2220	269	.00	.00	.00	0.
1	0955	120	.00	.00	.00	0.	*	1	2225	270	.00	.00	.00	0.
1	1000	121	.00	.00	.00	0.	*	1	2230	271	.00	.00	.00	0.
1	1005	122	.00	.00	.00	0.	*	1	2235	272	.00	.00	.00	0.
1	1010	123	.00	.00	.00	0.	*	1	2240	273	.00	.00	.00	0.
1	1015	124	.00	.00	.00	0.	*	1	2245	274	.00	.00	.00	0.
1	1020	125	.00	.00	.00	0.	*	1	2250	275	.00	.00	.00	0.
1	1025	126	.00	.00	.00	0.	*	1	2255	276	.00	.00	.00	0.
1	1030	127	.00	.00	.00	0.	*	1	2300	277	.00	.00	.00	0.
1	1035	128	.00	.00	.00	0.	*	1	2305	278	.00	.00	.00	0.
1	1040	129	.00	.00	.00	0.	*	1	2310	279	.00	.00	.00	0.
1	1045	130	.00	.00	.00	0.	*	1	2315	280	.00	.00	.00	0.
1	1050	131	.00	.00	.00	0.	*	1	2320	281	.00	.00	.00	0.
1	1055	132	.00	.00	.00	0.	*	1	2325	282	.00	.00	.00	0.
1	1100	133	.00	.00	.00	0.	*	1	2330	283	.00	.00	.00	0.
1	1105	134	.00	.00	.00	0.	*	1	2335	284	.00	.00	.00	0.
1	1110	135	.00	.00	.00	0.	*	1	2340	285	.00	.00	.00	0.
1	1115	136	.00	.00	.00	0.	*	1	2345	286	.00	.00	.00	0.
1	1120	137	.00	.00	.00	0.	*	1	2350	287	.00	.00	.00	0.
1	1125	138	.00	.00	.00	0.	*	1	2355	288	.00	.00	.00	0.
1	1130	139	.00	.00	.00	0.	*	2	0000	289	.00	.00	.00	0.
1	1135	140	.00	.00	.00	0.	*	2	0005	290	.00	.00	.00	0.
1	1140	141	.00	.00	.00	0.	*	2	0010	291	.00	.00	.00	0.
1	1145	142	.00	.00	.00	0.	*	2	0015	292	.00	.00	.00	0.
1	1150	143	.00	.00	.00	0.	*	2	0020	293	.00	.00	.00	0.
1	1155	144	.00	.00	.00	0.	*	2	0025	294	.00	.00	.00	0.
1	1200	145	.00	.00	.00	0.	*	2	0030	295	.00	.00	.00	0.
1	1205	146	.00	.00	.00	0.	*	2	0035	296	.00	.00	.00	0.
1	1210	147	.00	.00	.00	0.	*	2	0040	297	.00	.00	.00	0.
1	1215	148	.00	.00	.00	0.	*	2	0045	298	.00	.00	.00	0.
1	1220	149	.00	.00	.00	0.	*	2	0050	299	.00	.00	.00	0.

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      1     1225  150     .00     .00     .00        0.      *       2     0055  300     .00     .00     .00        0.
                                                             *
*****************************************************************************************************************************

   TOTAL RAINFALL =    1.99, TOTAL LOSS =    1.44, TOTAL EXCESS =     .55

 PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                   6-HR       24-HR       72-HR     24.92-HR
  (CFS)       (HR)
                          (CFS)
     9.       4.58                  3.          1.          1.          1.
                        (INCHES)   .544        .544        .544        .544
                         (AC-FT)     1.          1.          1.          1.

                         CUMULATIVE AREA =     .04 SQ MI


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


          **************
          *            *
 127 KK   *   Conflu   *     ence g1-g4 with phase 2
          *            *
          **************

 129 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

 128 HC          HYDROGRAPH COMBINATION
                      ICOMP          2  NUMBER OF HYDROGRAPHS TO COMBINE

                                                        ***

*****************************************************************************************************************************

                                    HYDROGRAPH AT STATION   Conflu
                                        SUM OF  2 HYDROGRAPHS

*****************************************************************************************************************************
                                 *                                 *                                 *
  DA MON HRMN  ORD      FLOW     *  DA MON HRMN  ORD      FLOW     *  DA MON HRMN  ORD      FLOW     *  DA MON HRMN  ORD      FLOW
                                 *                                 *                                 *
   1    0000    1        0.      *   1    0615   76       52.      *   1    1230  151        7.      *   1    1845  226        0.
   1    0005    2        0.      *   1    0620   77       49.      *   1    1235  152        7.      *   1    1850  227        0.
   1    0010    3        0.      *   1    0625   78       46.      *   1    1240  153        6.      *   1    1855  228        0.
   1    0015    4        0.      *   1    0630   79       43.      *   1    1245  154        6.      *   1    1900  229        0.
   1    0020    5        0.      *   1    0635   80       41.      *   1    1250  155        6.      *   1    1905  230        0.
   1    0025    6        0.      *   1    0640   81       39.      *   1    1255  156        6.      *   1    1910  231        0.
   1    0030    7        0.      *   1    0645   82       37.      *   1    1300  157        6.      *   1    1915  232        0.
   1    0035    8        0.      *   1    0650   83       35.      *   1    1305  158        6.      *   1    1920  233        0.
   1    0040    9        0.      *   1    0655   84       34.      *   1    1310  159        6.      *   1    1925  234        0.
   1    0045   10        0.      *   1    0700   85       32.      *   1    1315  160        6.      *   1    1930  235        0.
   1    0050   11        0.      *   1    0705   86       31.      *   1    1320  161        6.      *   1    1935  236        0.
```

1	0055	12	0.	*	1	0710	87	29.	*	1	1325	162	5.	*	1	1940	237	0.
1	0100	13	0.	*	1	0715	88	28.	*	1	1330	163	5.	*	1	1945	238	0.
1	0105	14	0.	*	1	0720	89	27.	*	1	1335	164	5.	*	1	1950	239	0.
1	0110	15	1.	*	1	0725	90	25.	*	1	1340	165	5.	*	1	1955	240	0.
1	0115	16	1.	*	1	0730	91	24.	*	1	1345	166	5.	*	1	2000	241	0.
1	0120	17	1.	*	1	0735	92	23.	*	1	1350	167	5.	*	1	2005	242	0.
1	0125	18	1.	*	1	0740	93	22.	*	1	1355	168	5.	*	1	2010	243	0.
1	0130	19	1.	*	1	0745	94	21.	*	1	1400	169	5.	*	1	2015	244	0.
1	0135	20	1.	*	1	0750	95	21.	*	1	1405	170	5.	*	1	2020	245	0.
1	0140	21	1.	*	1	0755	96	20.	*	1	1410	171	5.	*	1	2025	246	0.
1	0145	22	1.	*	1	0800	97	19.	*	1	1415	172	4.	*	1	2030	247	0.
1	0150	23	1.	*	1	0805	98	19.	*	1	1420	173	4.	*	1	2035	248	0.
1	0155	24	1.	*	1	0810	99	18.	*	1	1425	174	4.	*	1	2040	249	0.
1	0200	25	1.	*	1	0815	100	18.	*	1	1430	175	4.	*	1	2045	250	0.
1	0205	26	1.	*	1	0820	101	18.	*	1	1435	176	4.	*	1	2050	251	0.
1	0210	27	1.	*	1	0825	102	17.	*	1	1440	177	4.	*	1	2055	252	0.
1	0215	28	2.	*	1	0830	103	17.	*	1	1445	178	4.	*	1	2100	253	0.
1	0220	29	2.	*	1	0835	104	16.	*	1	1450	179	4.	*	1	2105	254	0.
1	0225	30	2.	*	1	0840	105	16.	*	1	1455	180	4.	*	1	2110	255	0.
1	0230	31	2.	*	1	0845	106	15.	*	1	1500	181	3.	*	1	2115	256	0.
1	0235	32	2.	*	1	0850	107	15.	*	1	1505	182	3.	*	1	2120	257	0.
1	0240	33	2.	*	1	0855	108	15.	*	1	1510	183	3.	*	1	2125	258	0.
1	0245	34	2.	*	1	0900	109	14.	*	1	1515	184	3.	*	1	2130	259	0.
1	0250	35	2.	*	1	0905	110	14.	*	1	1520	185	3.	*	1	2135	260	0.
1	0255	36	2.	*	1	0910	111	14.	*	1	1525	186	3.	*	1	2140	261	0.
1	0300	37	2.	*	1	0915	112	13.	*	1	1530	187	2.	*	1	2145	262	0.
1	0305	38	2.	*	1	0920	113	13.	*	1	1535	188	2.	*	1	2150	263	0.
1	0310	39	2.	*	1	0925	114	13.	*	1	1540	189	2.	*	1	2155	264	0.
1	0315	40	2.	*	1	0930	115	12.	*	1	1545	190	2.	*	1	2200	265	0.
1	0320	41	2.	*	1	0935	116	12.	*	1	1550	191	2.	*	1	2205	266	0.
1	0325	42	2.	*	1	0940	117	12.	*	1	1555	192	2.	*	1	2210	267	0.
1	0330	43	2.	*	1	0945	118	12.	*	1	1600	193	2.	*	1	2215	268	0.
1	0335	44	3.	*	1	0950	119	11.	*	1	1605	194	2.	*	1	2220	269	0.
1	0340	45	3.	*	1	0955	120	11.	*	1	1610	195	2.	*	1	2225	270	0.
1	0345	46	3.	*	1	1000	121	11.	*	1	1615	196	1.	*	1	2230	271	0.
1	0350	47	4.	*	1	1005	122	10.	*	1	1620	197	1.	*	1	2235	272	0.
1	0355	48	5.	*	1	1010	123	10.	*	1	1625	198	1.	*	1	2240	273	0.
1	0400	49	7.	*	1	1015	124	10.	*	1	1630	199	1.	*	1	2245	274	0.
1	0405	50	10.	*	1	1020	125	10.	*	1	1635	200	1.	*	1	2250	275	0.
1	0410	51	15.	*	1	1025	126	9.	*	1	1640	201	1.	*	1	2255	276	0.
1	0415	52	25.	*	1	1030	127	9.	*	1	1645	202	1.	*	1	2300	277	0.
1	0420	53	39.	*	1	1035	128	9.	*	1	1650	203	1.	*	1	2305	278	0.
1	0425	54	56.	*	1	1040	129	9.	*	1	1655	204	1.	*	1	2310	279	0.
1	0430	55	74.	*	1	1045	130	9.	*	1	1700	205	1.	*	1	2315	280	0.
1	0435	56	92.	*	1	1050	131	9.	*	1	1705	206	1.	*	1	2320	281	0.
1	0440	57	106.	*	1	1055	132	9.	*	1	1710	207	1.	*	1	2325	282	0.
1	0445	58	114.	*	1	1100	133	9.	*	1	1715	208	1.	*	1	2330	283	0.
1	0450	59	117.	*	1	1105	134	8.	*	1	1720	209	1.	*	1	2335	284	0.
1	0455	60	117.	*	1	1110	135	8.	*	1	1725	210	1.	*	1	2340	285	0.
1	0500	61	115.	*	1	1115	136	8.	*	1	1730	211	1.	*	1	2345	286	0.
1	0505	62	112.	*	1	1120	137	8.	*	1	1735	212	1.	*	1	2350	287	0.
1	0510	63	108.	*	1	1125	138	8.	*	1	1740	213	1.	*	1	2355	288	0.
1	0515	64	104.	*	1	1130	139	8.	*	1	1745	214	1.	*	2	0000	289	0.
1	0520	65	99.	*	1	1135	140	8.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	95.	*	1	1140	141	8.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	90.	*	1	1145	142	8.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	84.	*	1	1150	143	7.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	79.	*	1	1155	144	7.	*	1	1810	219	0.	*	2	0025	294	0.

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  1    0545   70      74.   *   1    1200  145      7.   *   1    1815  220      0.   *   2    0030  295      0.
  1    0550   71      69.   *   1    1205  146      7.   *   1    1820  221      0.   *   2    0035  296      0.
  1    0555   72      65.   *   1    1210  147      7.   *   1    1825  222      0.   *   2    0040  297      0.
  1    0600   73      62.   *   1    1215  148      7.   *   1    1830  223      0.   *   2    0045  298      0.
  1    0605   74      58.   *   1    1220  149      7.   *   1    1835  224      0.   *   2    0050  299      0.
  1    0610   75      55.   *   1    1225  150      7.   *   1    1840  225      0.   *   2    0055  300      0.
                            *                                 *                                 *
*****************************************************************************************************************

 PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                   6-HR       24-HR       72-HR     24.92-HR
  (CFS)       (HR)
                            (CFS)
    117.      4.83                 43.         12.         12.         12.
                         (INCHES)  .524        .613        .613        .613
                          (AC-FT)   21.         25.         25.         25.

                          CUMULATIVE AREA =     .76 SQ MI


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


            **************
            *            *
 130 KK     *   Route    *     water through existing topography in Phase 2 and out culverts
            *            *
            **************

 136 KO          OUTPUT CONTROL VARIABLES
                       IPRNT          2  PRINT CONTROL
                       IPLOT          0  PLOT CONTROL
                       QSCAL         0.  HYDROGRAPH PLOT SCALE

               HYDROGRAPH ROUTING DATA

 131 RS          STORAGE ROUTING
                       NSTPS          1  NUMBER OF SUBREACHES
                        ITYP       STOR  TYPE OF INITIAL CONDITION
                      RSVRIC        .00  INITIAL CONDITION
                           X        .00 WORKING R AND D COEFFICIENT

 132 SV            STORAGE        6.1      12.2      20.9

 133 SE          ELEVATION     977.00    978.00    979.00

 134 SQ          DISCHARGE        0.        15.       41.

 135 SE          ELEVATION     977.00    978.00    979.00

                                                        ***

                                        COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

            STORAGE       6.12     12.21     20.88
            OUTFLOW        .00     14.90     41.02
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ELEVATION 977.00 978.00 979.00

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HYDROGRAPH AT STATION Route

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DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	977.0	1		0820	101	23.	14.8	978.3	1		1640	201	8.	9.4	977.5
1		0005	2	0.	.0	977.0	1		0825	102	22.	14.7	978.3	1		1645	202	8.	9.4	977.5
1		0010	3	0.	.0	977.0	1		0830	103	22.	14.7	978.3	1		1650	203	8.	9.4	977.5
1		0015	4	0.	.0	977.0	1		0835	104	22.	14.6	978.3	1		1655	204	8.	9.3	977.5
1		0020	5	0.	.0	977.0	1		0840	105	22.	14.6	978.3	1		1700	205	8.	9.3	977.5
1		0025	6	0.	.0	977.0	1		0845	106	22.	14.6	978.3	1		1705	206	8.	9.2	977.5
1		0030	7	0.	.0	977.0	1		0850	107	22.	14.5	978.3	1		1710	207	7.	9.2	977.5
1		0035	8	0.	.0	977.0	1		0855	108	22.	14.5	978.3	1		1715	208	7.	9.1	977.5
1		0040	9	0.	.0	977.0	1		0900	109	22.	14.4	978.3	1		1720	209	7.	9.1	977.5
1		0045	10	0.	.0	977.0	1		0905	110	21.	14.4	978.2	1		1725	210	7.	9.0	977.5
1		0050	11	0.	.0	977.0	1		0910	111	21.	14.3	978.2	1		1730	211	7.	9.0	977.5
1		0055	12	0.	.0	977.0	1		0915	112	21.	14.3	978.2	1		1735	212	7.	8.9	977.5
1		0100	13	0.	.0	977.0	1		0920	113	21.	14.2	978.2	1		1740	213	7.	8.9	977.5
1		0105	14	0.	.0	977.0	1		0925	114	21.	14.1	978.2	1		1745	214	7.	8.9	977.4
1		0110	15	0.	.0	977.0	1		0930	115	21.	14.1	978.2	1		1750	215	7.	8.8	977.4
1		0115	16	0.	.0	977.0	1		0935	116	20.	14.0	978.2	1		1755	216	6.	8.8	977.4
1		0120	17	0.	.0	977.0	1		0940	117	20.	14.0	978.2	1		1800	217	6.	8.7	977.4
1		0125	18	0.	.0	977.0	1		0945	118	20.	13.9	978.2	1		1805	218	6.	8.7	977.4
1		0130	19	0.	.0	977.0	1		0950	119	20.	13.9	978.2	1		1810	219	6.	8.6	977.4
1		0135	20	0.	.0	977.0	1		0955	120	20.	13.8	978.2	1		1815	220	6.	8.6	977.4
1		0140	21	0.	.0	977.0	1		1000	121	19.	13.7	978.2	1		1820	221	6.	8.6	977.4
1		0145	22	0.	.1	977.0	1		1005	122	19.	13.7	978.2	1		1825	222	6.	8.5	977.4
1		0150	23	0.	.1	977.0	1		1010	123	19.	13.6	978.2	1		1830	223	6.	8.5	977.4
1		0155	24	0.	.1	977.0	1		1015	124	19.	13.5	978.2	1		1835	224	6.	8.5	977.4
1		0200	25	0.	.1	977.0	1		1020	125	19.	13.5	978.1	1		1840	225	6.	8.4	977.4
1		0205	26	0.	.1	977.0	1		1025	126	19.	13.4	978.1	1		1845	226	6.	8.4	977.4
1		0210	27	0.	.1	977.0	1		1030	127	18.	13.4	978.1	1		1850	227	5.	8.3	977.4
1		0215	28	0.	.1	977.0	1		1035	128	18.	13.3	978.1	1		1855	228	5.	8.3	977.4
1		0220	29	0.	.1	977.0	1		1040	129	18.	13.2	978.1	1		1900	229	5.	8.3	977.4
1		0225	30	0.	.1	977.0	1		1045	130	18.	13.2	978.1	1		1905	230	5.	8.2	977.3
1		0230	31	0.	.1	977.0	1		1050	131	18.	13.1	978.1	1		1910	231	5.	8.2	977.3
1		0235	32	0.	.2	977.0	1		1055	132	17.	13.1	978.1	1		1915	232	5.	8.2	977.3
1		0240	33	0.	.2	977.0	1		1100	133	17.	13.0	978.1	1		1920	233	5.	8.1	977.3
1		0245	34	0.	.2	977.0	1		1105	134	17.	12.9	978.1	1		1925	234	5.	8.1	977.3
1		0250	35	0.	.2	977.0	1		1110	135	17.	12.9	978.1	1		1930	235	5.	8.1	977.3
1		0255	36	0.	.2	977.0	1		1115	136	17.	12.8	978.1	1		1935	236	5.	8.0	977.3
1		0300	37	0.	.2	977.0	1		1120	137	17.	12.8	978.1	1		1940	237	5.	8.0	977.3
1		0305	38	0.	.2	977.0	1		1125	138	16.	12.7	978.1	1		1945	238	5.	8.0	977.3
1		0310	39	0.	.2	977.0	1		1130	139	16.	12.6	978.1	1		1950	239	4.	7.9	977.3
1		0315	40	0.	.3	977.0	1		1135	140	16.	12.6	978.0	1		1955	240	4.	7.9	977.3
1		0320	41	0.	.3	977.0	1		1140	141	16.	12.5	978.0	1		2000	241	4.	7.9	977.3
1		0325	42	0.	.3	977.0	1		1145	142	16.	12.5	978.0	1		2005	242	4.	7.9	977.3
1		0330	43	0.	.3	977.0	1		1150	143	16.	12.4	978.0	1		2010	243	4.	7.8	977.3
1		0335	44	0.	.3	977.0	1		1155	144	15.	12.4	978.0	1		2015	244	4.	7.8	977.3
1		0340	45	0.	.3	977.0	1		1200	145	15.	12.3	978.0	1		2020	245	4.	7.8	977.3
1		0345	46	0.	.4	977.0	1		1205	146	15.	12.3	978.0	1		2025	246	4.	7.7	977.3
1		0350	47	0.	.4	977.0	1		1210	147	15.	12.2	978.0	1		2030	247	4.	7.7	977.3
1		0355	48	0.	.4	977.0	1		1215	148	15.	12.1	978.0	1		2035	248	4.	7.7	977.3

1	0400	49	0.	.5	977.0	*	1	1220	149	15.	12.1	978.0	*	1	2040	249	4.	7.7	977.3
1	0405	50	0.	.5	977.0	*	1	1225	150	14.	12.0	978.0	*	1	2045	250	4.	7.6	977.3
1	0410	51	0.	.6	977.0	*	1	1230	151	14.	12.0	978.0	*	1	2050	251	4.	7.6	977.2
1	0415	52	0.	.7	977.0	*	1	1235	152	14.	11.9	978.0	*	1	2055	252	4.	7.6	977.2
1	0420	53	0.	1.0	977.0	*	1	1240	153	14.	11.9	977.9	*	1	2100	253	4.	7.6	977.2
1	0425	54	0.	1.3	977.0	*	1	1245	154	14.	11.8	977.9	*	1	2105	254	3.	7.5	977.2
1	0430	55	0.	1.7	977.0	*	1	1250	155	14.	11.8	977.9	*	1	2110	255	3.	7.5	977.2
1	0435	56	0.	2.3	977.0	*	1	1255	156	14.	11.7	977.9	*	1	2115	256	3.	7.5	977.2
1	0440	57	0.	3.0	977.0	*	1	1300	157	14.	11.7	977.9	*	1	2120	257	3.	7.5	977.2
1	0445	58	0.	3.8	977.0	*	1	1305	158	13.	11.6	977.9	*	1	2125	258	3.	7.5	977.2
1	0450	59	0.	4.5	977.0	*	1	1310	159	13.	11.6	977.9	*	1	2130	259	3.	7.4	977.2
1	0455	60	0.	5.3	977.0	*	1	1315	160	13.	11.5	977.9	*	1	2135	260	3.	7.4	977.2
1	0500	61	0.	6.1	977.0	*	1	1320	161	13.	11.5	977.9	*	1	2140	261	3.	7.4	977.2
1	0505	62	2.	6.9	977.1	*	1	1325	162	13.	11.4	977.9	*	1	2145	262	3.	7.4	977.2
1	0510	63	4.	7.7	977.3	*	1	1330	163	13.	11.4	977.9	*	1	2150	263	3.	7.3	977.2
1	0515	64	5.	8.3	977.4	*	1	1335	164	13.	11.3	977.9	*	1	2155	264	3.	7.3	977.2
1	0520	65	7.	9.0	977.5	*	1	1340	165	13.	11.3	977.8	*	1	2200	265	3.	7.3	977.2
1	0525	66	9.	9.6	977.6	*	1	1345	166	12.	11.2	977.8	*	1	2205	266	3.	7.3	977.2
1	0530	67	10.	10.2	977.7	*	1	1350	167	12.	11.2	977.8	*	1	2210	267	3.	7.3	977.2
1	0535	68	11.	10.7	977.8	*	1	1355	168	12.	11.1	977.8	*	1	2215	268	3.	7.3	977.2
1	0540	69	12.	11.2	977.8	*	1	1400	169	12.	11.1	977.8	*	1	2220	269	3.	7.2	977.2
1	0545	70	13.	11.6	977.9	*	1	1405	170	12.	11.0	977.8	*	1	2225	270	3.	7.2	977.2
1	0550	71	14.	12.0	978.0	*	1	1410	171	12.	11.0	977.8	*	1	2230	271	3.	7.2	977.2
1	0555	72	15.	12.4	978.0	*	1	1415	172	12.	10.9	977.8	*	1	2235	272	3.	7.2	977.2
1	0600	73	16.	12.7	978.1	*	1	1420	173	12.	10.9	977.8	*	1	2240	273	3.	7.2	977.2
1	0605	74	17.	13.0	978.1	*	1	1425	174	11.	10.8	977.8	*	1	2245	274	3.	7.1	977.2
1	0610	75	18.	13.3	978.1	*	1	1430	175	11.	10.8	977.8	*	1	2250	275	2.	7.1	977.2
1	0615	76	19.	13.5	978.2	*	1	1435	176	11.	10.7	977.8	*	1	2255	276	2.	7.1	977.2
1	0620	77	20.	13.7	978.2	*	1	1440	177	11.	10.7	977.7	*	1	2300	277	2.	7.1	977.2
1	0625	78	20.	13.9	978.2	*	1	1445	178	11.	10.6	977.7	*	1	2305	278	2.	7.1	977.2
1	0630	79	21.	14.1	978.2	*	1	1450	179	11.	10.6	977.7	*	1	2310	279	2.	7.1	977.2
1	0635	80	21.	14.2	978.2	*	1	1455	180	11.	10.5	977.7	*	1	2315	280	2.	7.0	977.2
1	0640	81	21.	14.4	978.2	*	1	1500	181	11.	10.5	977.7	*	1	2320	281	2.	7.0	977.1
1	0645	82	22.	14.5	978.3	*	1	1505	182	10.	10.4	977.7	*	1	2325	282	2.	7.0	977.1
1	0650	83	22.	14.6	978.3	*	1	1510	183	10.	10.4	977.7	*	1	2330	283	2.	7.0	977.1
1	0655	84	22.	14.7	978.3	*	1	1515	184	10.	10.3	977.7	*	1	2335	284	2.	7.0	977.1
1	0700	85	23.	14.7	978.3	*	1	1520	185	10.	10.3	977.7	*	1	2340	285	2.	7.0	977.1
1	0705	86	23.	14.8	978.3	*	1	1525	186	10.	10.2	977.7	*	1	2345	286	2.	7.0	977.1
1	0710	87	23.	14.8	978.3	*	1	1530	187	10.	10.2	977.7	*	1	2350	287	2.	6.9	977.1
1	0715	88	23.	14.9	978.3	*	1	1535	188	10.	10.1	977.7	*	1	2355	288	2.	6.9	977.1
1	0720	89	23.	14.9	978.3	*	1	1540	189	10.	10.1	977.6	*	2	0000	289	2.	6.9	977.1
1	0725	90	23.	14.9	978.3	*	1	1545	190	9.	10.0	977.6	*	2	0005	290	2.	6.9	977.1
1	0730	91	23.	14.9	978.3	*	1	1550	191	9.	10.0	977.6	*	2	0010	291	2.	6.9	977.1
1	0735	92	23.	14.9	978.3	*	1	1555	192	9.	9.9	977.6	*	2	0015	292	2.	6.9	977.1
1	0740	93	23.	14.9	978.3	*	1	1600	193	9.	9.8	977.6	*	2	0020	293	2.	6.9	977.1
1	0745	94	23.	14.9	978.3	*	1	1605	194	9.	9.8	977.6	*	2	0025	294	2.	6.9	977.1
1	0750	95	23.	14.9	978.3	*	1	1610	195	9.	9.7	977.6	*	2	0030	295	2.	6.8	977.1
1	0755	96	23.	14.9	978.3	*	1	1615	196	9.	9.7	977.6	*	2	0035	296	2.	6.8	977.1
1	0800	97	23.	14.9	978.3	*	1	1620	197	9.	9.6	977.6	*	2	0040	297	2.	6.8	977.1
1	0805	98	23.	14.8	978.3	*	1	1625	198	9.	9.6	977.6	*	2	0045	298	2.	6.8	977.1
1	0810	99	23.	14.8	978.3	*	1	1630	199	8.	9.5	977.6	*	2	0050	299	2.	6.8	977.1
1	0815	100	23.	14.8	978.3	*	1	1635	200	8.	9.5	977.6	*	2	0055	300	2.	6.8	977.1
						*							*						

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PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)				

		(CFS)				
23.	7.58		20.	9.	9.	9.
		(INCHES)	.247	.446	.446	.446
		(AC-FT)	10.	18.	18.	18.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
(AC-FT)	(HR)				
15.	7.58	14.	9.	8.	8.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
(FEET)	(HR)				
978.32	7.58	978.20	977.57	977.55	977.55

CUMULATIVE AREA = .76 SQ MI

RUNOFF SUMMARY
FLOW IN CUBIC FEET PER SECOND
TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD 6-HOUR	24-HOUR	72-HOUR	BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
HYDROGRAPH AT	DEVELO	97.	4.67	28.	7.	7.	.41		
ROUTED TO	Node17	97.	4.67	28.	7.	7.	.41	79.51	4.67
ROUTED TO	Node10	97.	4.75	28.	7.	7.	.41	7.94	4.75
HYDROGRAPH AT	DEVELO	25.	4.25	4.	1.	1.	.04		
ROUTED TO	Node7	0.	.08	0.	0.	0.	.04		
2 COMBINED AT	Node11	97.	4.75	28.	7.	7.	.45		
ROUTED TO	Node10	96.	4.83	28.	7.	7.	.45	7.94	4.83
HYDROGRAPH AT	DEVELO	7.	4.17	1.	0.	0.	.01		
ROUTED TO	Node8	0.	.08	0.	0.	0.	.01		
2 COMBINED AT	Node13	96.	4.83	28.	7.	7.	.46		
ROUTED TO	Node10	96.	4.83	28.	7.	7.	.46	7.93	4.83
HYDROGRAPH AT	DEVELO	104.	4.33	19.	5.	5.	.25		
ROUTED TO	Node9	14.	5.75	12.	5.	5.	.25	8.96	5.75
2 COMBINED AT	Node15	108.	4.92	40.	12.	11.	.71		
HYDROGRAPH AT	Develo	9.	4.58	3.	1.	1.	.04		

2 COMBINED AT									
	Conflu	117.	4.83	43.	12.	12.	.76		
ROUTED TO									
	Route	23.	7.58	20.	9.	9.	.76		
								978.32	7.58

*** NORMAL END OF HEC-1 ***

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*****************************************
*                                       *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
*            SEPTEMBER 1990             *
*             VERSION 4.0               *
*                                       *
* RUN DATE  10/16/1997  TIME  09:52:35  *
*                                       *
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*                                       *
*    U.S. ARMY CORPS OF ENGINEERS       *
*    HYDROLOGIC ENGINEERING CENTER      *
*          609 SECOND STREET            *
*       DAVIS, CALIFORNIA 95616         *
*           (916) 756-1104              *
*                                       *
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X     X  XXXXXXX   XXXXX          X
X     X  X        X     X        XX
X     X  X        X              X
XXXXXXX  XXXX     X        XXXXX  X
X     X  X        X               X
X     X  X        X     X         X
X     X  XXXXXXX   XXXXX         XXX
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THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

MODEL #2 -

Phase 1 Routed Through Channels & Exist. Topo 100-Year

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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  1           ID       model#2
  2           IT       5                    300
  3           IO       2

  4           KK  DEVELOP RAINFALL FOR BASIN G1
  5           KM   6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
  6           KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
  7           KM  L = 1.17  Kb = .050  Adj. Slope =   21.3
  8           BA    .413
  9           PB   2.961
 10           IN      15
 11           PC    .000    .008    .016    .025    .033    .041    .050    .058    .066    .074
 12           PC    .087    .099    .119    .138    .216    .377    .834    .911    .931    .950
 13           PC    .962    .973    .983    .991   1.000
 14           LG    .430    .255   3.500    .515   7.000
 15           UC    .887    .616
 16           UA       0       5      16      30      65      77      84      90      94      97
 17           UA     100
 18           KO       2

 19           KK  Node17
 20           KM  basin routing through transfer drain culverts
 21           RS       1    STOR       0       0
 22           SV       0     .02     .11     .20    1.79    3.38    7.57   13.81
 23           SE   77.82      78      79      80      81      82      83      84
 24           SL   77.82   15.70      .6      .5
 25           SS   83.80      15     2.7     1.5
 26           KO       2

 27           KK  Node10
 28           KM  Route water from culverts to middle of subdivision
 29           RS       1    STOR       0       0
 30           RC    .035    .035    .035     650   .0022      15
 31           RX       0      20     120   136.6   146.6   162.2   262.2   282.2
 32           RY      15      11      10    5.85    5.85      10      11      15
 33           KO       2

 34           KK  DEVELOPE RAINFALL FOR SUBBASIN G2
 35           KM   6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
 36           KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
 37           KM  L =  .41  Kb = .064  Adj. Slope =   48.9
 38           BA    .040
 39           PB   2.961
 40           LG    .430    .255   3.500   0.515  30.000
 41           UC    .458    .477
 42           UA       0       5      16      30      65      77      84      90      94      97
 43           UA     100
 44           KO       2

 45           KK  Node7
 46           KM  Route flow through basin to remove developed area storage
 47           RS       1    STOR       0       0
 48           SV       0    2.13    2.15    2.16    2.17    2.18    2.19    2.20    2.25    2.50
 49           SV    2.75
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50 SQ 0 0 10 15 20 25 30 35 40 45

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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  51          SQ      50
  52          KO       2

  53          KK  Node11
  54          KM  conflunce g1 and g2
  55          HC       2
  56          KO       2

  57          KK  Node10
  58          KM  Route water from culverts to middle of subdivision
  59          RS       1    STOR       0       0
  60          RC    .035    .035    .035     650   .0022      15
  61          RX       0      20     120   136.6   146.6   162.2   262.2   282.2
  62          RY      15      11      10    5.85    5.85      10      11      15
  63          KO       2

  64          KK  DEVELOPE RAINFALL FOR G3
  65          KM   6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
  66          KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
  67          KM  L =  .30  Kb = .072  Adj. Slope =   60.9
  68          BA    .010
  69          PB   2.961
  70          LG    .430    .255   3.500    .515  30.000
  71          UC    .296    .498
  72          UA       0       5      16      30      65      77      84      90      94      97
  73          UA     100
  74          KO       2

  75          KK  Node8
  76          KM  Route area through subdivision to remove retention storage
  77          RS       1    STOR       0       0
  78          SV       0     .58     .60     .61     .62     .63     .64
  79          SQ       0       0      10      20      30      40      50
  80          KO       2

  81          KK  Node13
  82          KM  confluence g1-g2 with g3
  83          KO       2
  84          HC       2
  85          KO       2

  86          KK  Node10
  87          KM  Route water from  middle of subdivision to old mcdowell
  88          RS       1    STOR       0       0
  89          RC    .035    .035    .035     650   .0022      15
  90          RX       0      20     120   136.6   146.6   162.2   262.2   282.2
  91          RY      15      11      10    5.85    5.85      10      11      15
  92          KO       2

  93          KK  DEVELOP RAINFALL FOR SUBBASIN G4
  94          KM   6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
  95          KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
  96          KM  L =  .98  Kb = .064  Adj. Slope =   26.3
  97          BA    .252
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LINE        ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 99         LG    .430    .255   3.500    .515  10.470
100         UC    .742    .576
101         UA       0       5      16      30      65      77      84      90      94      97
102         UA     100
103         KO       2

104         KK  Node9
105         KM  Route water through detention basin to remove subdivision storage
106         RS       1    STOR       0       0
107         SV       0    7.58       8       9      10
108         SE       0      10      11      12      13
109         SL       0       1      .6      .5
110         SS      10      25     2.7     1.5
111         KO       2

112         KK  Node15
113         KM  confluence g1-g2-g3 with g4
114         HC       2
115         KO       2

116         KK  Develope rainfall for phase 2 area
117         KM   6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
118         KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
119         KM  L =  .072  Kb = .064  Adj. Slope =   9.9
120         BA    .043
121         PB   2.961
122         LG    .430    .255   3.500    .515   0.000
123         UC    .604    .485
124         UA       0       5      16      30      65      77      84      90      94      97
125         UA     100
126         KO       2

127         KK  Confluence g1-g4 with phase 2
128         HC       2
129         KO       2

130         KK  Route water through existing topography in Phase 2 and out culverts
131         RS       1    ELEV     974       0
132         SV       0    6.12   12.21   20.88   32.25   46.84   65.17   86.92  111.77
133         SE     974     977     978     979     980     981     982     983     984
134         SQ       0       0   14.90   41.02   90.10  151.37  220.14  286.54  345.40
135         SE     974     977     978     979     980     981     982     983     984
136         KO       2
137         ZZ
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****************************************                    ****************************************
*                                      *                    *                                      *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)  *                    *   U.S. ARMY CORPS OF ENGINEERS       *
*           SEPTEMBER 1990             *                    *   HYDROLOGIC ENGINEERING CENTER      *
*            VERSION 4.0               *                    *         609 SECOND STREET            *
*                                      *                    *      DAVIS, CALIFORNIA 95616         *
* RUN DATE  06/09/1998  TIME  16:04:34 *                    *          (916) 756-1104              *
*                                      *                    *                                      *
****************************************                    ****************************************


                          model#2

  3 IO         OUTPUT CONTROL VARIABLES
                     IPRNT          2  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL         0.  HYDROGRAPH PLOT SCALE

    IT         HYDROGRAPH TIME DATA
                      NMIN          5  MINUTES IN COMPUTATION INTERVAL
                     IDATE      1   0  STARTING DATE
                     ITIME       0000  STARTING TIME
                        NQ        300  NUMBER OF HYDROGRAPH ORDINATES
                    NDDATE      2   0  ENDING DATE
                    NDTIME       0055  ENDING TIME
                     ICENT         19  CENTURY MARK

                COMPUTATION INTERVAL     .08 HOURS
                     TOTAL TIME BASE   24.92 HOURS

        ENGLISH UNITS
            DRAINAGE AREA          SQUARE MILES
            PRECIPITATION DEPTH    INCHES
            LENGTH, ELEVATION      FEET
            FLOW                   CUBIC FEET PER SECOND
            STORAGE VOLUME         ACRE-FEET
            SURFACE AREA           ACRES
            TEMPERATURE            DEGREES FAHRENHEIT


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


          **************
          *            *
  4 KK    *   DEVELO   *     P RAINFALL FOR BASIN G1
          *            *
          **************
                       6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
                       THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
                      L = 1.17  Kb = .050  Adj. Slope =   21.3

 10 IN         TIME DATA FOR INPUT TIME SERIES
                     JXMIN         15  TIME INTERVAL IN MINUTES
```

```
                JXDATE      1    0  STARTING DATE
                JXTIME           0  STARTING TIME

18 KO         OUTPUT CONTROL VARIABLES
                IPRNT            2  PRINT CONTROL
                IPLOT            0  PLOT CONTROL
                QSCAL           0.  HYDROGRAPH PLOT SCALE

            SUBBASIN RUNOFF DATA

 8 BA         SUBBASIN CHARACTERISTICS
                TAREA          .41  SUBBASIN AREA

              PRECIPITATION DATA

 9 PB           STORM         2.96  BASIN TOTAL PRECIPITATION

11 PI           INCREMENTAL PRECIPITATION PATTERN
                .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                .00      .00      .00      .01      .01      .01      .01      .01      .01      .03
                .03      .03      .05      .05      .05      .15      .15      .15      .03      .03
                .03      .01      .01      .01      .01      .01      .01      .00      .00      .00
                .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                .00      .00

14 LG         GREEN AND AMPT LOSS RATE
                STRTL          .43  STARTING LOSS
                  DTH          .25  MOISTURE DEFICIT
                 PSIF         3.50  WETTING FRONT SUCTION
                XKSAT          .51  HYDRAULIC CONDUCTIVITY
                RTIMP         7.00  PERCENT IMPERVIOUS AREA

15 UC         CLARK UNITGRAPH
                   TC          .89  TIME OF CONCENTRATION
                    R          .62  STORAGE COEFFICIENT

16 UA         ACCUMULATED-AREA VS. TIME,  11 ORDINATES
                  .0       5.0      16.0      30.0      65.0      77.0      84.0      90.0      94.0      97.0
               100.0

                                          ***

                                   UNIT HYDROGRAPH PARAMETERS
                             CLARK   TC=   .89 HR,       R=   .62 HR
                            SNYDER   TP=   .50 HR,      CP=   .46

                                      UNIT HYDROGRAPH
                                 44 END-OF-PERIOD ORDINATES
            10.      38.      79.     154.     228.     249.     246.     237.     223.     207.
           190.     170.     148.     129.     113.      99.      86.      75.      66.      57.
            50.      44.      38.      33.      29.      25.      22.      19.      17.      15.
            13.      11.      10.       9.       8.       7.       6.       5.       4.       4.
             3.       3.       3.       2.
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HYDROGRAPH AT STATION DEVELO

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1		0000	1	.00	.00	.00	0.	1		1230	151	.00	.00	.00	0.
1		0005	2	.01	.01	.00	0.	1		1235	152	.00	.00	.00	0.
1		0010	3	.01	.01	.00	0.	1		1240	153	.00	.00	.00	0.
1		0015	4	.01	.01	.00	0.	1		1245	154	.00	.00	.00	0.
1		0020	5	.01	.01	.00	0.	1		1250	155	.00	.00	.00	0.
1		0025	6	.01	.01	.00	0.	1		1255	156	.00	.00	.00	0.
1		0030	7	.01	.01	.00	0.	1		1300	157	.00	.00	.00	0.
1		0035	8	.01	.01	.00	1.	1		1305	158	.00	.00	.00	0.
1		0040	9	.01	.01	.00	1.	1		1310	159	.00	.00	.00	0.
1		0045	10	.01	.01	.00	1.	1		1315	160	.00	.00	.00	0.
1		0050	11	.01	.01	.00	1.	1		1320	161	.00	.00	.00	0.
1		0055	12	.01	.01	.00	1.	1		1325	162	.00	.00	.00	0.
1		0100	13	.01	.01	.00	1.	1		1330	163	.00	.00	.00	0.
1		0105	14	.01	.01	.00	1.	1		1335	164	.00	.00	.00	0.
1		0110	15	.01	.01	.00	1.	1		1340	165	.00	.00	.00	0.
1		0115	16	.01	.01	.00	1.	1		1345	166	.00	.00	.00	0.
1		0120	17	.01	.01	.00	1.	1		1350	167	.00	.00	.00	0.
1		0125	18	.01	.01	.00	1.	1		1355	168	.00	.00	.00	0.
1		0130	19	.01	.01	.00	2.	1		1400	169	.00	.00	.00	0.
1		0135	20	.01	.01	.00	2.	1		1405	170	.00	.00	.00	0.
1		0140	21	.01	.01	.00	2.	1		1410	171	.00	.00	.00	0.
1		0145	22	.01	.01	.00	2.	1		1415	172	.00	.00	.00	0.
1		0150	23	.01	.01	.00	2.	1		1420	173	.00	.00	.00	0.
1		0155	24	.01	.01	.00	2.	1		1425	174	.00	.00	.00	0.
1		0200	25	.01	.01	.00	2.	1		1430	175	.00	.00	.00	0.
1		0205	26	.01	.01	.00	2.	1		1435	176	.00	.00	.00	0.
1		0210	27	.01	.01	.00	2.	1		1440	177	.00	.00	.00	0.
1		0215	28	.01	.01	.00	2.	1		1445	178	.00	.00	.00	0.
1		0220	29	.01	.01	.00	2.	1		1450	179	.00	.00	.00	0.
1		0225	30	.01	.01	.00	2.	1		1455	180	.00	.00	.00	0.
1		0230	31	.01	.01	.00	2.	1		1500	181	.00	.00	.00	0.
1		0235	32	.01	.01	.00	2.	1		1505	182	.00	.00	.00	0.
1		0240	33	.01	.01	.00	2.	1		1510	183	.00	.00	.00	0.
1		0245	34	.01	.01	.00	2.	1		1515	184	.00	.00	.00	0.
1		0250	35	.02	.02	.00	2.	1		1520	185	.00	.00	.00	0.
1		0255	36	.02	.02	.00	2.	1		1525	186	.00	.00	.00	0.
1		0300	37	.02	.02	.00	2.	1		1530	187	.00	.00	.00	0.
1		0305	38	.02	.02	.00	2.	1		1535	188	.00	.00	.00	0.
1		0310	39	.02	.02	.00	3.	1		1540	189	.00	.00	.00	0.
1		0315	40	.02	.02	.00	3.	1		1545	190	.00	.00	.00	0.
1		0320	41	.08	.07	.01	3.	1		1550	191	.00	.00	.00	0.
1		0325	42	.08	.07	.01	3.	1		1555	192	.00	.00	.00	0.
1		0330	43	.08	.07	.01	4.	1		1600	193	.00	.00	.00	0.
1		0335	44	.16	.15	.01	5.	1		1605	194	.00	.00	.00	0.
1		0340	45	.16	.12	.04	6.	1		1610	195	.00	.00	.00	0.
1		0345	46	.16	.10	.05	9.	1		1615	196	.00	.00	.00	0.
1		0350	47	.45	.09	.36	17.	1		1620	197	.00	.00	.00	0.
1		0355	48	.45	.09	.36	36.	1		1625	198	.00	.00	.00	0.
1		0400	49	.45	.08	.37	71.	1		1630	199	.00	.00	.00	0.
1		0405	50	.08	.07	.01	128.	1		1635	200	.00	.00	.00	0.
1		0410	51	.08	.07	.01	197.	1		1640	201	.00	.00	.00	0.
1		0415	52	.08	.07	.01	259.	1		1645	202	.00	.00	.00	0.

1	0420	53	.02	.02	.00	292.	*	1	1650	203	.00	.00	.00	0.
1	0425	54	.02	.02	.00	294.	*	1	1655	204	.00	.00	.00	0.
1	0430	55	.02	.02	.00	283.	*	1	1700	205	.00	.00	.00	0.
1	0435	56	.02	.02	.00	267.	*	1	1705	206	.00	.00	.00	0.
1	0440	57	.02	.02	.00	248.	*	1	1710	207	.00	.00	.00	0.
1	0445	58	.02	.02	.00	227.	*	1	1715	208	.00	.00	.00	0.
1	0450	59	.01	.01	.00	204.	*	1	1720	209	.00	.00	.00	0.
1	0455	60	.01	.01	.00	180.	*	1	1725	210	.00	.00	.00	0.
1	0500	61	.01	.01	.00	158.	*	1	1730	211	.00	.00	.00	0.
1	0505	62	.01	.01	.00	138.	*	1	1735	212	.00	.00	.00	0.
1	0510	63	.01	.01	.00	121.	*	1	1740	213	.00	.00	.00	0.
1	0515	64	.01	.01	.00	106.	*	1	1745	214	.00	.00	.00	0.
1	0520	65	.01	.01	.00	93.	*	1	1750	215	.00	.00	.00	0.
1	0525	66	.01	.01	.00	82.	*	1	1755	216	.00	.00	.00	0.
1	0530	67	.01	.01	.00	72.	*	1	1800	217	.00	.00	.00	0.
1	0535	68	.01	.01	.00	63.	*	1	1805	218	.00	.00	.00	0.
1	0540	69	.01	.01	.00	55.	*	1	1810	219	.00	.00	.00	0.
1	0545	70	.01	.01	.00	48.	*	1	1815	220	.00	.00	.00	0.
1	0550	71	.01	.01	.00	43.	*	1	1820	221	.00	.00	.00	0.
1	0555	72	.01	.01	.00	37.	*	1	1825	222	.00	.00	.00	0.
1	0600	73	.01	.01	.00	33.	*	1	1830	223	.00	.00	.00	0.
1	0605	74	.00	.00	.00	29.	*	1	1835	224	.00	.00	.00	0.
1	0610	75	.00	.00	.00	26.	*	1	1840	225	.00	.00	.00	0.
1	0615	76	.00	.00	.00	23.	*	1	1845	226	.00	.00	.00	0.
1	0620	77	.00	.00	.00	20.	*	1	1850	227	.00	.00	.00	0.
1	0625	78	.00	.00	.00	17.	*	1	1855	228	.00	.00	.00	0.
1	0630	79	.00	.00	.00	15.	*	1	1900	229	.00	.00	.00	0.
1	0635	80	.00	.00	.00	13.	*	1	1905	230	.00	.00	.00	0.
1	0640	81	.00	.00	.00	12.	*	1	1910	231	.00	.00	.00	0.
1	0645	82	.00	.00	.00	10.	*	1	1915	232	.00	.00	.00	0.
1	0650	83	.00	.00	.00	9.	*	1	1920	233	.00	.00	.00	0.
1	0655	84	.00	.00	.00	8.	*	1	1925	234	.00	.00	.00	0.
1	0700	85	.00	.00	.00	7.	*	1	1930	235	.00	.00	.00	0.
1	0705	86	.00	.00	.00	6.	*	1	1935	236	.00	.00	.00	0.
1	0710	87	.00	.00	.00	5.	*	1	1940	237	.00	.00	.00	0.
1	0715	88	.00	.00	.00	4.	*	1	1945	238	.00	.00	.00	0.
1	0720	89	.00	.00	.00	4.	*	1	1950	239	.00	.00	.00	0.
1	0725	90	.00	.00	.00	3.	*	1	1955	240	.00	.00	.00	0.
1	0730	91	.00	.00	.00	2.	*	1	2000	241	.00	.00	.00	0.
1	0735	92	.00	.00	.00	1.	*	1	2005	242	.00	.00	.00	0.
1	0740	93	.00	.00	.00	0.	*	1	2010	243	.00	.00	.00	0.
1	0745	94	.00	.00	.00	0.	*	1	2015	244	.00	.00	.00	0.
1	0750	95	.00	.00	.00	0.	*	1	2020	245	.00	.00	.00	0.
1	0755	96	.00	.00	.00	0.	*	1	2025	246	.00	.00	.00	0.
1	0800	97	.00	.00	.00	0.	*	1	2030	247	.00	.00	.00	0.
1	0805	98	.00	.00	.00	0.	*	1	2035	248	.00	.00	.00	0.
1	0810	99	.00	.00	.00	0.	*	1	2040	249	.00	.00	.00	0.
1	0815	100	.00	.00	.00	0.	*	1	2045	250	.00	.00	.00	0.
1	0820	101	.00	.00	.00	0.	*	1	2050	251	.00	.00	.00	0.
1	0825	102	.00	.00	.00	0.	*	1	2055	252	.00	.00	.00	0.
1	0830	103	.00	.00	.00	0.	*	1	2100	253	.00	.00	.00	0.
1	0835	104	.00	.00	.00	0.	*	1	2105	254	.00	.00	.00	0.
1	0840	105	.00	.00	.00	0.	*	1	2110	255	.00	.00	.00	0.
1	0845	106	.00	.00	.00	0.	*	1	2115	256	.00	.00	.00	0.
1	0850	107	.00	.00	.00	0.	*	1	2120	257	.00	.00	.00	0.
1	0855	108	.00	.00	.00	0.	*	1	2125	258	.00	.00	.00	0.
1	0900	109	.00	.00	.00	0.	*	1	2130	259	.00	.00	.00	0.
1	0905	110	.00	.00	.00	0.	*	1	2135	260	.00	.00	.00	0.

1	0910	111	.00	.00	.00	0.	*	1	2140	261	.00	.00	.00	0.
1	0915	112	.00	.00	.00	0.	*	1	2145	262	.00	.00	.00	0.
1	0920	113	.00	.00	.00	0.	*	1	2150	263	.00	.00	.00	0.
1	0925	114	.00	.00	.00	0.	*	1	2155	264	.00	.00	.00	0.
1	0930	115	.00	.00	.00	0.	*	1	2200	265	.00	.00	.00	0.
1	0935	116	.00	.00	.00	0.	*	1	2205	266	.00	.00	.00	0.
1	0940	117	.00	.00	.00	0.	*	1	2210	267	.00	.00	.00	0.
1	0945	118	.00	.00	.00	0.	*	1	2215	268	.00	.00	.00	0.
1	0950	119	.00	.00	.00	0.	*	1	2220	269	.00	.00	.00	0.
1	0955	120	.00	.00	.00	0.	*	1	2225	270	.00	.00	.00	0.
1	1000	121	.00	.00	.00	0.	*	1	2230	271	.00	.00	.00	0.
1	1005	122	.00	.00	.00	0.	*	1	2235	272	.00	.00	.00	0.
1	1010	123	.00	.00	.00	0.	*	1	2240	273	.00	.00	.00	0.
1	1015	124	.00	.00	.00	0.	*	1	2245	274	.00	.00	.00	0.
1	1020	125	.00	.00	.00	0.	*	1	2250	275	.00	.00	.00	0.
1	1025	126	.00	.00	.00	0.	*	1	2255	276	.00	.00	.00	0.
1	1030	127	.00	.00	.00	0.	*	1	2300	277	.00	.00	.00	0.
1	1035	128	.00	.00	.00	0.	*	1	2305	278	.00	.00	.00	0.
1	1040	129	.00	.00	.00	0.	*	1	2310	279	.00	.00	.00	0.
1	1045	130	.00	.00	.00	0.	*	1	2315	280	.00	.00	.00	0.
1	1050	131	.00	.00	.00	0.	*	1	2320	281	.00	.00	.00	0.
1	1055	132	.00	.00	.00	0.	*	1	2325	282	.00	.00	.00	0.
1	1100	133	.00	.00	.00	0.	*	1	2330	283	.00	.00	.00	0.
1	1105	134	.00	.00	.00	0.	*	1	2335	284	.00	.00	.00	0.
1	1110	135	.00	.00	.00	0.	*	1	2340	285	.00	.00	.00	0.
1	1115	136	.00	.00	.00	0.	*	1	2345	286	.00	.00	.00	0.
1	1120	137	.00	.00	.00	0.	*	1	2350	287	.00	.00	.00	0.
1	1125	138	.00	.00	.00	0.	*	1	2355	288	.00	.00	.00	0.
1	1130	139	.00	.00	.00	0.	*	2	0000	289	.00	.00	.00	0.
1	1135	140	.00	.00	.00	0.	*	2	0005	290	.00	.00	.00	0.
1	1140	141	.00	.00	.00	0.	*	2	0010	291	.00	.00	.00	0.
1	1145	142	.00	.00	.00	0.	*	2	0015	292	.00	.00	.00	0.
1	1150	143	.00	.00	.00	0.	*	2	0020	293	.00	.00	.00	0.
1	1155	144	.00	.00	.00	0.	*	2	0025	294	.00	.00	.00	0.
1	1200	145	.00	.00	.00	0.	*	2	0030	295	.00	.00	.00	0.
1	1205	146	.00	.00	.00	0.	*	2	0035	296	.00	.00	.00	0.
1	1210	147	.00	.00	.00	0.	*	2	0040	297	.00	.00	.00	0.
1	1215	148	.00	.00	.00	0.	*	2	0045	298	.00	.00	.00	0.
1	1220	149	.00	.00	.00	0.	*	2	0050	299	.00	.00	.00	0.
1	1225	150	.00	.00	.00	0.	*	2	0055	300	.00	.00	.00	0.
							*							

****

TOTAL RAINFALL = 2.96, TOTAL LOSS = 1.69, TOTAL EXCESS = 1.27

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
294.	4.42		56.	14.	14.	14.
		(INCHES)	1.262	1.267	1.267	1.267
		(AC-FT)	28.	28.	28.	28.

CUMULATIVE AREA = .41 SQ MI

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          **************
          *            *
 19 KK    *   Node17   *
          *            *
          **************
                    basin routing through transfer drain culverts

 26 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

             HYDROGRAPH ROUTING DATA

 21 RS          STORAGE ROUTING
                      NSTPS          1  NUMBER OF SUBREACHES
                       ITYP       STOR  TYPE OF INITIAL CONDITION
                     RSVRIC        .00  INITIAL CONDITION
                          X        .00 WORKING R AND D COEFFICIENT

 22 SV            STORAGE        .0       .0       .1       .2      1.8      3.4      7.6     13.8

 23 SE          ELEVATION      77.82    78.00    79.00    80.00    81.00    82.00    83.00    84.00

 24 SL          LOW-LEVEL OUTLET
                      ELEVL      77.82  ELEVATION AT CENTER OF OUTLET
                      CAREA      15.70  CROSS-SECTIONAL AREA
                       COQL        .60  COEFFICIENT
                       EXPL        .50  EXPONENT OF HEAD

 25 SS          SPILLWAY
                       CREL      83.80  SPILLWAY CREST ELEVATION
                      SPWID      15.00  SPILLWAY WIDTH
                       COQW       2.70  WEIR COEFFICIENT
                       EXPW       1.50  EXPONENT OF HEAD

                                                  ***

                                   COMPUTED OUTFLOW-ELEVATION DATA

          OUTFLOW       .00   109.17   115.06   121.61   128.96   137.24   146.67   157.49   170.03   184.75
        ELEVATION     77.82    79.91    80.14    80.41    80.73    81.12    81.59    82.17    82.89    83.80

          OUTFLOW    186.73   187.08   187.48   187.91   188.38   188.90   189.46   190.07   190.73   191.43
        ELEVATION     83.87    83.89    83.90    83.91    83.92    83.94    83.95    83.97    83.98    84.00

                                   COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

          STORAGE       .00      .02      .11      .19      .20      .42      .85     1.37     1.79     1.98
          OUTFLOW       .00    32.05    82.07   109.17   111.55   115.06   121.61   128.96   134.72   137.24
        ELEVATION     77.82    78.00    79.00    79.91    80.00    80.14    80.41    80.73    81.00    81.12

          STORAGE      2.73     3.38     4.07     7.09     7.57    12.56    13.03    13.10    13.17    13.25
          OUTFLOW    146.67   154.46   157.49   170.03   171.95   184.75   186.73   187.08   187.48   187.91
```

ELEVATION	81.59	82.00	82.17	82.89	83.00	83.80	83.87	83.89	83.90	83.91

STORAGE	13.33	13.42	13.51	13.60	13.70	13.81
OUTFLOW	188.38	188.90	189.46	190.07	190.73	191.43
ELEVATION	83.92	83.94	83.95	83.97	83.98	84.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 0. TO 109.
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

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HYDROGRAPH AT STATION Node17

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DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	77.8	*	1		0820	101	0.	.0	77.8	*	1		1640	201	0.	.0	77.8
1		0005	2	0.	.0	77.8	*	1		0825	102	0.	.0	77.8	*	1		1645	202	0.	.0	77.8
1		0010	3	0.	.0	77.8	*	1		0830	103	0.	.0	77.8	*	1		1650	203	0.	.0	77.8
1		0015	4	0.	.0	77.8	*	1		0835	104	0.	.0	77.8	*	1		1655	204	0.	.0	77.8
1		0020	5	0.	.0	77.8	*	1		0840	105	0.	.0	77.8	*	1		1700	205	0.	.0	77.8
1		0025	6	0.	.0	77.8	*	1		0845	106	0.	.0	77.8	*	1		1705	206	0.	.0	77.8
1		0030	7	0.	.0	77.8	*	1		0850	107	0.	.0	77.8	*	1		1710	207	0.	.0	77.8
1		0035	8	1.	.0	77.8	*	1		0855	108	0.	.0	77.8	*	1		1715	208	0.	.0	77.8
1		0040	9	1.	.0	77.8	*	1		0900	109	0.	.0	77.8	*	1		1720	209	0.	.0	77.8
1		0045	10	1.	.0	77.8	*	1		0905	110	0.	.0	77.8	*	1		1725	210	0.	.0	77.8
1		0050	11	1.	.0	77.8	*	1		0910	111	0.	.0	77.8	*	1		1730	211	0.	.0	77.8
1		0055	12	1.	.0	77.8	*	1		0915	112	0.	.0	77.8	*	1		1735	212	0.	.0	77.8
1		0100	13	1.	.0	77.8	*	1		0920	113	0.	.0	77.8	*	1		1740	213	0.	.0	77.8
1		0105	14	1.	.0	77.8	*	1		0925	114	0.	.0	77.8	*	1		1745	214	0.	.0	77.8
1		0110	15	1.	.0	77.8	*	1		0930	115	0.	.0	77.8	*	1		1750	215	0.	.0	77.8
1		0115	16	1.	.0	77.8	*	1		0935	116	0.	.0	77.8	*	1		1755	216	0.	.0	77.8
1		0120	17	1.	.0	77.8	*	1		0940	117	0.	.0	77.8	*	1		1800	217	0.	.0	77.8
1		0125	18	1.	.0	77.8	*	1		0945	118	0.	.0	77.8	*	1		1805	218	0.	.0	77.8
1		0130	19	2.	.0	77.8	*	1		0950	119	0.	.0	77.8	*	1		1810	219	0.	.0	77.8
1		0135	20	2.	.0	77.8	*	1		0955	120	0.	.0	77.8	*	1		1815	220	0.	.0	77.8
1		0140	21	2.	.0	77.8	*	1		1000	121	0.	.0	77.8	*	1		1820	221	0.	.0	77.8
1		0145	22	2.	.0	77.8	*	1		1005	122	0.	.0	77.8	*	1		1825	222	0.	.0	77.8
1		0150	23	2.	.0	77.8	*	1		1010	123	0.	.0	77.8	*	1		1830	223	0.	.0	77.8
1		0155	24	2.	.0	77.8	*	1		1015	124	0.	.0	77.8	*	1		1835	224	0.	.0	77.8
1		0200	25	2.	.0	77.8	*	1		1020	125	0.	.0	77.8	*	1		1840	225	0.	.0	77.8
1		0205	26	2.	.0	77.8	*	1		1025	126	0.	.0	77.8	*	1		1845	226	0.	.0	77.8
1		0210	27	2.	.0	77.8	*	1		1030	127	0.	.0	77.8	*	1		1850	227	0.	.0	77.8
1		0215	28	2.	.0	77.8	*	1		1035	128	0.	.0	77.8	*	1		1855	228	0.	.0	77.8
1		0220	29	2.	.0	77.8	*	1		1040	129	0.	.0	77.8	*	1		1900	229	0.	.0	77.8
1		0225	30	2.	.0	77.8	*	1		1045	130	0.	.0	77.8	*	1		1905	230	0.	.0	77.8
1		0230	31	2.	.0	77.8	*	1		1050	131	0.	.0	77.8	*	1		1910	231	0.	.0	77.8
1		0235	32	2.	.0	77.8	*	1		1055	132	0.	.0	77.8	*	1		1915	232	0.	.0	77.8
1		0240	33	2.	.0	77.8	*	1		1100	133	0.	.0	77.8	*	1		1920	233	0.	.0	77.8
1		0245	34	2.	.0	77.8	*	1		1105	134	0.	.0	77.8	*	1		1925	234	0.	.0	77.8
1		0250	35	2.	.0	77.8	*	1		1110	135	0.	.0	77.8	*	1		1930	235	0.	.0	77.8
1		0255	36	2.	.0	77.8	*	1		1115	136	0.	.0	77.8	*	1		1935	236	0.	.0	77.8
1		0300	37	2.	.0	77.8	*	1		1120	137	0.	.0	77.8	*	1		1940	237	0.	.0	77.8
1		0305	38	2.	.0	77.8	*	1		1125	138	0.	.0	77.8	*	1		1945	238	0.	.0	77.8
1		0310	39	3.	.0	77.8	*	1		1130	139	0.	.0	77.8	*	1		1950	239	0.	.0	77.8
1		0315	40	3.	.0	77.8	*	1		1135	140	0.	.0	77.8	*	1		1955	240	0.	.0	77.8

1	0320	41	3.	.0	77.8	*	1	1140	141	0.	.0	77.8	*	1	2000	241	0.	.0	77.8
1	0325	42	3.	.0	77.8	*	1	1145	142	0.	.0	77.8	*	1	2005	242	0.	.0	77.8
1	0330	43	4.	.0	77.8	*	1	1150	143	0.	.0	77.8	*	1	2010	243	0.	.0	77.8
1	0335	44	4.	.0	77.8	*	1	1155	144	0.	.0	77.8	*	1	2015	244	0.	.0	77.8
1	0340	45	6.	.0	77.9	*	1	1200	145	0.	.0	77.8	*	1	2020	245	0.	.0	77.8
1	0345	46	9.	.0	77.9	*	1	1205	146	0.	.0	77.8	*	1	2025	246	0.	.0	77.8
1	0350	47	16.	.0	77.9	*	1	1210	147	0.	.0	77.8	*	1	2030	247	0.	.0	77.8
1	0355	48	33.	.0	78.0	*	1	1215	148	0.	.0	77.8	*	1	2035	248	0.	.0	77.8
1	0400	49	60.	.1	78.6	*	1	1220	149	0.	.0	77.8	*	1	2040	249	0.	.0	77.8
1	0405	50	106.	.2	79.8	*	1	1225	150	0.	.0	77.8	*	1	2045	250	0.	.0	77.8
1	0410	51	117.	.5	80.2	*	1	1230	151	0.	.0	77.8	*	1	2050	251	0.	.0	77.8
1	0415	52	127.	1.3	80.7	*	1	1235	152	0.	.0	77.8	*	1	2055	252	0.	.0	77.8
1	0420	53	140.	2.2	81.3	*	1	1240	153	0.	.0	77.8	*	1	2100	253	0.	.0	77.8
1	0425	54	153.	3.2	81.9	*	1	1245	154	0.	.0	77.8	*	1	2105	254	0.	.0	77.8
1	0430	55	158.	4.2	82.2	*	1	1250	155	0.	.0	77.8	*	1	2110	255	0.	.0	77.8
1	0435	56	161.	5.0	82.4	*	1	1255	156	0.	.0	77.8	*	1	2115	256	0.	.0	77.8
1	0440	57	164.	5.6	82.5	*	1	1300	157	0.	.0	77.8	*	1	2120	257	0.	.0	77.8
1	0445	58	166.	6.1	82.7	*	1	1305	158	0.	.0	77.8	*	1	2125	258	0.	.0	77.8
1	0450	59	167.	6.5	82.7	*	1	1310	159	0.	.0	77.8	*	1	2130	259	0.	.0	77.8
1	0455	60	168.	6.6	82.8	*	1	1315	160	0.	.0	77.8	*	1	2135	260	0.	.0	77.8
1	0500	61	168.	6.6	82.8	*	1	1320	161	0.	.0	77.8	*	1	2140	261	0.	.0	77.8
1	0505	62	168.	6.5	82.7	*	1	1325	162	0.	.0	77.8	*	1	2145	262	0.	.0	77.8
1	0510	63	166.	6.2	82.7	*	1	1330	163	0.	.0	77.8	*	1	2150	263	0.	.0	77.8
1	0515	64	165.	5.9	82.6	*	1	1335	164	0.	.0	77.8	*	1	2155	264	0.	.0	77.8
1	0520	65	163.	5.4	82.5	*	1	1340	165	0.	.0	77.8	*	1	2200	265	0.	.0	77.8
1	0525	66	161.	4.9	82.4	*	1	1345	166	0.	.0	77.8	*	1	2205	266	0.	.0	77.8
1	0530	67	159.	4.3	82.2	*	1	1350	167	0.	.0	77.8	*	1	2210	267	0.	.0	77.8
1	0535	68	156.	3.7	82.1	*	1	1355	168	0.	.0	77.8	*	1	2215	268	0.	.0	77.8
1	0540	69	151.	3.1	81.8	*	1	1400	169	0.	.0	77.8	*	1	2220	269	0.	.0	77.8
1	0545	70	143.	2.4	81.4	*	1	1405	170	0.	.0	77.8	*	1	2225	270	0.	.0	77.8
1	0550	71	135.	1.8	81.0	*	1	1410	171	0.	.0	77.8	*	1	2230	271	0.	.0	77.8
1	0555	72	126.	1.2	80.6	*	1	1415	172	0.	.0	77.8	*	1	2235	272	0.	.0	77.8
1	0600	73	117.	.6	80.2	*	1	1420	173	0.	.0	77.8	*	1	2240	273	0.	.0	77.8
1	0605	74	78.	.1	78.9	*	1	1425	174	0.	.0	77.8	*	1	2245	274	0.	.0	77.8
1	0610	75	5.	.0	77.8	*	1	1430	175	0.	.0	77.8	*	1	2250	275	0.	.0	77.8
1	0615	76	36.	.0	78.1	*	1	1435	176	0.	.0	77.8	*	1	2255	276	0.	.0	77.8
1	0620	77	12.	.0	77.9	*	1	1440	177	0.	.0	77.8	*	1	2300	277	0.	.0	77.8
1	0625	78	23.	.0	77.9	*	1	1445	178	0.	.0	77.8	*	1	2305	278	0.	.0	77.8
1	0630	79	12.	.0	77.9	*	1	1450	179	0.	.0	77.8	*	1	2310	279	0.	.0	77.8
1	0635	80	16.	.0	77.9	*	1	1455	180	0.	.0	77.8	*	1	2315	280	0.	.0	77.8
1	0640	81	10.	.0	77.9	*	1	1500	181	0.	.0	77.8	*	1	2320	281	0.	.0	77.8
1	0645	82	12.	.0	77.9	*	1	1505	182	0.	.0	77.8	*	1	2325	282	0.	.0	77.8
1	0650	83	8.	.0	77.9	*	1	1510	183	0.	.0	77.8	*	1	2330	283	0.	.0	77.8
1	0655	84	8.	.0	77.9	*	1	1515	184	0.	.0	77.8	*	1	2335	284	0.	.0	77.8
1	0700	85	6.	.0	77.9	*	1	1520	185	0.	.0	77.8	*	1	2340	285	0.	.0	77.8
1	0705	86	6.	.0	77.9	*	1	1525	186	0.	.0	77.8	*	1	2345	286	0.	.0	77.8
1	0710	87	5.	.0	77.8	*	1	1530	187	0.	.0	77.8	*	1	2350	287	0.	.0	77.8
1	0715	88	5.	.0	77.8	*	1	1535	188	0.	.0	77.8	*	1	2355	288	0.	.0	77.8
1	0720	89	4.	.0	77.8	*	1	1540	189	0.	.0	77.8	*	2	0000	289	0.	.0	77.8
1	0725	90	3.	.0	77.8	*	1	1545	190	0.	.0	77.8	*	2	0005	290	0.	.0	77.8
1	0730	91	2.	.0	77.8	*	1	1550	191	0.	.0	77.8	*	2	0010	291	0.	.0	77.8
1	0735	92	1.	.0	77.8	*	1	1555	192	0.	.0	77.8	*	2	0015	292	0.	.0	77.8
1	0740	93	0.	.0	77.8	*	1	1600	193	0.	.0	77.8	*	2	0020	293	0.	.0	77.8
1	0745	94	0.	.0	77.8	*	1	1605	194	0.	.0	77.8	*	2	0025	294	0.	.0	77.8
1	0750	95	0.	.0	77.8	*	1	1610	195	0.	.0	77.8	*	2	0030	295	0.	.0	77.8
1	0755	96	0.	.0	77.8	*	1	1615	196	0.	.0	77.8	*	2	0035	296	0.	.0	77.8
1	0800	97	0.	.0	77.8	*	1	1620	197	0.	.0	77.8	*	2	0040	297	0.	.0	77.8
1	0805	98	0.	.0	77.8	*	1	1625	198	0.	.0	77.8	*	2	0045	298	0.	.0	77.8

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 1     0810  99       0.       .0    77.8 *  1     1630 199       0.       .0    77.8 *  2     0050 299       0.       .0    77.8
 1     0815 100       0.       .0    77.8 *  1     1635 200       0.       .0    77.8 *  2     0055 300       0.       .0    77.8
                                           *                                            *
*****************************************************************************************************************************

 PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                     6-HR       24-HR       72-HR     24.92-HR
  (CFS)       (HR)
                          (CFS)
    168.      5.00                   56.         14.         14.         14.
                        (INCHES)    1.262       1.267       1.267       1.267
                         (AC-FT)     28.         28.         28.         28.

PEAK STORAGE   TIME                         MAXIMUM AVERAGE STORAGE
                                     6-HR       24-HR       72-HR     24.92-HR
 (AC-FT)      (HR)
      7.      5.00                    1.          0.          0.          0.

 PEAK STAGE    TIME                          MAXIMUM AVERAGE STAGE
                                     6-HR       24-HR       72-HR     24.92-HR
  (FEET)      (HR)
   82.77      5.00                  79.21       78.17       78.16       78.16

                        CUMULATIVE AREA =     .41 SQ MI


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


            **************
            *            *
 27 KK      *    Node10  *
            *            *
            **************
                         Route water from culverts to middle of subdivision

 33 KO          OUTPUT CONTROL VARIABLES
                      IPRNT           2  PRINT CONTROL
                      IPLOT           0  PLOT CONTROL
                      QSCAL          0.  HYDROGRAPH PLOT SCALE

              HYDROGRAPH ROUTING DATA

 29 RS          STORAGE ROUTING
                      NSTPS           1  NUMBER OF SUBREACHES
                       ITYP        STOR  TYPE OF INITIAL CONDITION
                     RSVRIC         .00  INITIAL CONDITION
                          X         .00 WORKING R AND D COEFFICIENT

 30 RC          NORMAL DEPTH CHANNEL
                        ANL        .035  LEFT OVERBANK N-VALUE
                       ANCH        .035  MAIN CHANNEL N-VALUE
                        ANR        .035  RIGHT OVERBANK N-VALUE
                      RLNTH        650.  REACH LENGTH
                        SEL       .0022  ENERGY SLOPE
                      ELMAX        15.0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION
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CROSS-SECTION DATA

		--- LEFT OVERBANK ---			+ ------ MAIN CHANNEL -------		+ --- RIGHT OVERBANK ---		
32 RY	ELEVATION	15.00	11.00	10.00	5.85	5.85	10.00	11.00	15.00
31 RX	DISTANCE	.00	20.00	120.00	136.60	146.60	162.20	262.20	282.20

***

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	.09	.20	.34	.50	.69	.91	1.16	1.43	1.78
OUTFLOW	.00	6.32	21.74	46.35	81.01	126.67	184.32	254.90	339.36	449.06
ELEVATION	5.85	6.33	6.81	7.29	7.78	8.26	8.74	9.22	9.70	10.18
STORAGE	2.70	4.27	6.04	7.84	9.68	11.55	13.46	15.40	17.38	19.39
OUTFLOW	628.29	931.10	1390.33	1963.47	2640.18	3413.96	4280.30	5235.91	6278.27	7405.46
ELEVATION	10.67	11.15	11.63	12.11	12.59	13.07	13.56	14.04	14.52	15.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 255. TO 7405.
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

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HYDROGRAPH AT STATION Node10

****

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	5.8	*	1		0820	101	0.	.0	5.9	*	1		1640	201	0.	.0	5.8
1		0005	2	0.	.0	5.9	*	1		0825	102	0.	.0	5.9	*	1		1645	202	0.	.0	5.8
1		0010	3	0.	.0	5.9	*	1		0830	103	0.	.0	5.9	*	1		1650	203	0.	.0	5.8
1		0015	4	0.	.0	5.9	*	1		0835	104	0.	.0	5.9	*	1		1655	204	0.	.0	5.8
1		0020	5	0.	.0	5.9	*	1		0840	105	0.	.0	5.9	*	1		1700	205	0.	.0	5.8
1		0025	6	0.	.0	5.9	*	1		0845	106	0.	.0	5.9	*	1		1705	206	0.	.0	5.8
1		0030	7	0.	.0	5.9	*	1		0850	107	0.	.0	5.9	*	1		1710	207	0.	.0	5.8
1		0035	8	0.	.0	5.9	*	1		0855	108	0.	.0	5.9	*	1		1715	208	0.	.0	5.8
1		0040	9	0.	.0	5.9	*	1		0900	109	0.	.0	5.9	*	1		1720	209	0.	.0	5.8
1		0045	10	1.	.0	5.9	*	1		0905	110	0.	.0	5.9	*	1		1725	210	0.	.0	5.8
1		0050	11	1.	.0	5.9	*	1		0910	111	0.	.0	5.9	*	1		1730	211	0.	.0	5.8
1		0055	12	1.	.0	5.9	*	1		0915	112	0.	.0	5.9	*	1		1735	212	0.	.0	5.8
1		0100	13	1.	.0	5.9	*	1		0920	113	0.	.0	5.9	*	1		1740	213	0.	.0	5.8
1		0105	14	1.	.0	5.9	*	1		0925	114	0.	.0	5.9	*	1		1745	214	0.	.0	5.8
1		0110	15	1.	.0	5.9	*	1		0930	115	0.	.0	5.9	*	1		1750	215	0.	.0	5.8
1		0115	16	1.	.0	5.9	*	1		0935	116	0.	.0	5.9	*	1		1755	216	0.	.0	5.8
1		0120	17	1.	.0	5.9	*	1		0940	117	0.	.0	5.9	*	1		1800	217	0.	.0	5.8
1		0125	18	1.	.0	6.0	*	1		0945	118	0.	.0	5.9	*	1		1805	218	0.	.0	5.8
1		0130	19	1.	.0	6.0	*	1		0950	119	0.	.0	5.9	*	1		1810	219	0.	.0	5.8
1		0135	20	1.	.0	6.0	*	1		0955	120	0.	.0	5.9	*	1		1815	220	0.	.0	5.8
1		0140	21	2.	.0	6.0	*	1		1000	121	0.	.0	5.9	*	1		1820	221	0.	.0	5.8
1		0145	22	2.	.0	6.0	*	1		1005	122	0.	.0	5.9	*	1		1825	222	0.	.0	5.8
1		0150	23	2.	.0	6.0	*	1		1010	123	0.	.0	5.9	*	1		1830	223	0.	.0	5.8
1		0155	24	2.	.0	6.0	*	1		1015	124	0.	.0	5.9	*	1		1835	224	0.	.0	5.8
1		0200	25	2.	.0	6.0	*	1		1020	125	0.	.0	5.9	*	1		1840	225	0.	.0	5.8
1		0205	26	2.	.0	6.0	*	1		1025	126	0.	.0	5.9	*	1		1845	226	0.	.0	5.8
1		0210	27	2.	.0	6.0	*	1		1030	127	0.	.0	5.9	*	1		1850	227	0.	.0	5.8

1	0215	28	2.	.0	6.0	*	1	1035	128	0.	.0	5.9	*	1	1855	228	0.	.0	5.8
1	0220	29	2.	.0	6.0	*	1	1040	129	0.	.0	5.9	*	1	1900	229	0.	.0	5.8
1	0225	30	2.	.0	6.0	*	1	1045	130	0.	.0	5.9	*	1	1905	230	0.	.0	5.8
1	0230	31	2.	.0	6.0	*	1	1050	131	0.	.0	5.8	*	1	1910	231	0.	.0	5.8
1	0235	32	2.	.0	6.0	*	1	1055	132	0.	.0	5.8	*	1	1915	232	0.	.0	5.8
1	0240	33	2.	.0	6.0	*	1	1100	133	0.	.0	5.8	*	1	1920	233	0.	.0	5.8
1	0245	34	2.	.0	6.0	*	1	1105	134	0.	.0	5.8	*	1	1925	234	0.	.0	5.8
1	0250	35	2.	.0	6.0	*	1	1110	135	0.	.0	5.8	*	1	1930	235	0.	.0	5.8
1	0255	36	2.	.0	6.0	*	1	1115	136	0.	.0	5.8	*	1	1935	236	0.	.0	5.8
1	0300	37	2.	.0	6.0	*	1	1120	137	0.	.0	5.8	*	1	1940	237	0.	.0	5.8
1	0305	38	2.	.0	6.0	*	1	1125	138	0.	.0	5.8	*	1	1945	238	0.	.0	5.8
1	0310	39	2.	.0	6.0	*	1	1130	139	0.	.0	5.8	*	1	1950	239	0.	.0	5.8
1	0315	40	2.	.0	6.0	*	1	1135	140	0.	.0	5.8	*	1	1955	240	0.	.0	5.8
1	0320	41	3.	.0	6.0	*	1	1140	141	0.	.0	5.8	*	1	2000	241	0.	.0	5.8
1	0325	42	3.	.0	6.1	*	1	1145	142	0.	.0	5.8	*	1	2005	242	0.	.0	5.8
1	0330	43	3.	.0	6.1	*	1	1150	143	0.	.0	5.8	*	1	2010	243	0.	.0	5.8
1	0335	44	3.	.0	6.1	*	1	1155	144	0.	.0	5.8	*	1	2015	244	0.	.0	5.8
1	0340	45	4.	.1	6.2	*	1	1200	145	0.	.0	5.8	*	1	2020	245	0.	.0	5.8
1	0345	46	5.	.1	6.3	*	1	1205	146	0.	.0	5.8	*	1	2025	246	0.	.0	5.8
1	0350	47	9.	.1	6.4	*	1	1210	147	0.	.0	5.8	*	1	2030	247	0.	.0	5.8
1	0355	48	19.	.2	6.7	*	1	1215	148	0.	.0	5.8	*	1	2035	248	0.	.0	5.8
1	0400	49	39.	.3	7.2	*	1	1220	149	0.	.0	5.8	*	1	2040	249	0.	.0	5.8
1	0405	50	75.	.5	7.7	*	1	1225	150	0.	.0	5.8	*	1	2045	250	0.	.0	5.8
1	0410	51	107.	.6	8.1	*	1	1230	151	0.	.0	5.8	*	1	2050	251	0.	.0	5.8
1	0415	52	121.	.7	8.2	*	1	1235	152	0.	.0	5.8	*	1	2055	252	0.	.0	5.8
1	0420	53	133.	.7	8.3	*	1	1240	153	0.	.0	5.8	*	1	2100	253	0.	.0	5.8
1	0425	54	146.	.8	8.4	*	1	1245	154	0.	.0	5.8	*	1	2105	254	0.	.0	5.8
1	0430	55	155.	.8	8.5	*	1	1250	155	0.	.0	5.8	*	1	2110	255	0.	.0	5.8
1	0435	56	159.	.8	8.5	*	1	1255	156	0.	.0	5.8	*	1	2115	256	0.	.0	5.8
1	0440	57	162.	.8	8.6	*	1	1300	157	0.	.0	5.8	*	1	2120	257	0.	.0	5.8
1	0445	58	165.	.8	8.6	*	1	1305	158	0.	.0	5.8	*	1	2125	258	0.	.0	5.8
1	0450	59	167.	.8	8.6	*	1	1310	159	0.	.0	5.8	*	1	2130	259	0.	.0	5.8
1	0455	60	168.	.9	8.6	*	1	1315	160	0.	.0	5.8	*	1	2135	260	0.	.0	5.8
1	0500	61	168.	.9	8.6	*	1	1320	161	0.	.0	5.8	*	1	2140	261	0.	.0	5.8
1	0505	62	168.	.9	8.6	*	1	1325	162	0.	.0	5.8	*	1	2145	262	0.	.0	5.8
1	0510	63	167.	.8	8.6	*	1	1330	163	0.	.0	5.8	*	1	2150	263	0.	.0	5.8
1	0515	64	166.	.8	8.6	*	1	1335	164	0.	.0	5.8	*	1	2155	264	0.	.0	5.8
1	0520	65	164.	.8	8.6	*	1	1340	165	0.	.0	5.8	*	1	2200	265	0.	.0	5.8
1	0525	66	162.	.8	8.6	*	1	1345	166	0.	.0	5.8	*	1	2205	266	0.	.0	5.8
1	0530	67	160.	.8	8.5	*	1	1350	167	0.	.0	5.8	*	1	2210	267	0.	.0	5.8
1	0535	68	157.	.8	8.5	*	1	1355	168	0.	.0	5.8	*	1	2215	268	0.	.0	5.8
1	0540	69	154.	.8	8.5	*	1	1400	169	0.	.0	5.8	*	1	2220	269	0.	.0	5.8
1	0545	70	147.	.8	8.4	*	1	1405	170	0.	.0	5.8	*	1	2225	270	0.	.0	5.8
1	0550	71	139.	.7	8.4	*	1	1410	171	0.	.0	5.8	*	1	2230	271	0.	.0	5.8
1	0555	72	131.	.7	8.3	*	1	1415	172	0.	.0	5.8	*	1	2235	272	0.	.0	5.8
1	0600	73	122.	.7	8.2	*	1	1420	173	0.	.0	5.8	*	1	2240	273	0.	.0	5.8
1	0605	74	100.	.6	8.0	*	1	1425	174	0.	.0	5.8	*	1	2245	274	0.	.0	5.8
1	0610	75	50.	.4	7.3	*	1	1430	175	0.	.0	5.8	*	1	2250	275	0.	.0	5.8
1	0615	76	27.	.2	6.9	*	1	1435	176	0.	.0	5.8	*	1	2255	276	0.	.0	5.8
1	0620	77	25.	.2	6.9	*	1	1440	177	0.	.0	5.8	*	1	2300	277	0.	.0	5.8
1	0625	78	20.	.2	6.7	*	1	1445	178	0.	.0	5.8	*	1	2305	278	0.	.0	5.8
1	0630	79	18.	.2	6.7	*	1	1450	179	0.	.0	5.8	*	1	2310	279	0.	.0	5.8
1	0635	80	15.	.2	6.6	*	1	1455	180	0.	.0	5.8	*	1	2315	280	0.	.0	5.8
1	0640	81	14.	.1	6.6	*	1	1500	181	0.	.0	5.8	*	1	2320	281	0.	.0	5.8
1	0645	82	12.	.1	6.5	*	1	1505	182	0.	.0	5.8	*	1	2325	282	0.	.0	5.8
1	0650	83	11.	.1	6.5	*	1	1510	183	0.	.0	5.8	*	1	2330	283	0.	.0	5.8
1	0655	84	9.	.1	6.4	*	1	1515	184	0.	.0	5.8	*	1	2335	284	0.	.0	5.8
1	0700	85	8.	.1	6.4	*	1	1520	185	0.	.0	5.8	*	1	2340	285	0.	.0	5.8

1	0705	86	7.	.1	6.4	*	1	1525	186	0.	.0	5.8	*	1	2345	286	0.	.0	5.8
1	0710	87	6.	.1	6.3	*	1	1530	187	0.	.0	5.8	*	1	2350	287	0.	.0	5.8
1	0715	88	6.	.1	6.3	*	1	1535	188	0.	.0	5.8	*	1	2355	288	0.	.0	5.8
1	0720	89	5.	.1	6.2	*	1	1540	189	0.	.0	5.8	*	2	0000	289	0.	.0	5.8
1	0725	90	4.	.1	6.2	*	1	1545	190	0.	.0	5.8	*	2	0005	290	0.	.0	5.8
1	0730	91	4.	.1	6.1	*	1	1550	191	0.	.0	5.8	*	2	0010	291	0.	.0	5.8
1	0735	92	3.	.0	6.1	*	1	1555	192	0.	.0	5.8	*	2	0015	292	0.	.0	5.8
1	0740	93	2.	.0	6.0	*	1	1600	193	0.	.0	5.8	*	2	0020	293	0.	.0	5.8
1	0745	94	1.	.0	6.0	*	1	1605	194	0.	.0	5.8	*	2	0025	294	0.	.0	5.8
1	0750	95	1.	.0	5.9	*	1	1610	195	0.	.0	5.8	*	2	0030	295	0.	.0	5.8
1	0755	96	1.	.0	5.9	*	1	1615	196	0.	.0	5.8	*	2	0035	296	0.	.0	5.8
1	0800	97	0.	.0	5.9	*	1	1620	197	0.	.0	5.8	*	2	0040	297	0.	.0	5.8
1	0805	98	0.	.0	5.9	*	1	1625	198	0.	.0	5.8	*	2	0045	298	0.	.0	5.8
1	0810	99	0.	.0	5.9	*	1	1630	199	0.	.0	5.8	*	2	0050	299	0.	.0	5.8
1	0815	100	0.	.0	5.9	*	1	1635	200	0.	.0	5.8	*	2	0055	300	0.	.0	5.8
						*							*						

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)					
		(CFS)				
168.	5.00		56.	14.	14.	14.
		(INCHES)	1.261	1.267	1.267	1.267
		(AC-FT)	28.	28.	28.	28.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
(AC-FT)	(HR)				
1.	5.00	0.	0.	0.	0.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
(FEET)	(HR)				
8.60	5.00	7.01	6.14	6.13	6.13

CUMULATIVE AREA = .41 SQ MI

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          **************
          *            *
 34 KK    *   DEVELO   *     PE RAINFALL FOR SUBBASIN G2
          *            *
          **************
                    6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
                    THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
                   L =  .41  Kb = .064  Adj. Slope =   48.9

 44 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE
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SUBBASIN RUNOFF DATA

38 BA SUBBASIN CHARACTERISTICS

TAREA	.04	SUBBASIN AREA

PRECIPITATION DATA

39 PB

STORM	2.96	BASIN TOTAL PRECIPITATION

11 PI INCREMENTAL PRECIPITATION PATTERN

.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.01	.01	.01	.01	.01	.01	.03
.03	.03	.05	.05	.05	.15	.15	.15	.03	.03
.03	.01	.01	.01	.01	.01	.01	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00								

40 LG GREEN AND AMPT LOSS RATE

STRTL	.43	STARTING LOSS
DTH	.25	*MOISTURE DEFICIT*
PSIF	3.50	WETTING FRONT SUCTION
XKSAT	.51	HYDRAULIC CONDUCTIVITY
RTIMP	30.00	PERCENT IMPERVIOUS AREA

41 UC CLARK UNITGRAPH

TC	.46	TIME OF CONCENTRATION
R	.48	STORAGE COEFFICIENT

42 UA ACCUMULATED-AREA VS. TIME, 11 ORDINATES

.0	5.0	16.0	30.0	65.0	77.0	84.0	90.0	94.0	97.0
100.0									

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UNIT HYDROGRAPH PARAMETERS

CLARK TC= .46 HR, R= .48 HR

SNYDER TP= .32 HR, CP= .43

UNIT HYDROGRAPH

33 END-OF-PERIOD ORDINATES

3.	16.	30.	35.	33.	30.	26.	22.	18.	15.
13.	11.	9.	8.	6.	5.	5.	4.	3.	3.
2.	2.	2.	1.	1.	1.	1.	1.	1.	0.
0.	0.	0.							

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HYDROGRAPH AT STATION DEVELO

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1		0000	1	.00	.00	.00	0.	*	1		1230	151	.00	.00	.00	0.
1		0005	2	.01	.01	.00	0.	*	1		1235	152	.00	.00	.00	0.
1		0010	3	.01	.01	.00	0.	*	1		1240	153	.00	.00	.00	0.

1	0015	4	.01	.01	.00	0.	*	1	1245	154	.00	.00	.00	0.
1	0020	5	.01	.01	.00	0.	*	1	1250	155	.00	.00	.00	0.
1	0025	6	.01	.01	.00	0.	*	1	1255	156	.00	.00	.00	0.
1	0030	7	.01	.01	.00	0.	*	1	1300	157	.00	.00	.00	0.
1	0035	8	.01	.01	.00	0.	*	1	1305	158	.00	.00	.00	0.
1	0040	9	.01	.01	.00	0.	*	1	1310	159	.00	.00	.00	0.
1	0045	10	.01	.01	.00	1.	*	1	1315	160	.00	.00	.00	0.
1	0050	11	.01	.01	.00	1.	*	1	1320	161	.00	.00	.00	0.
1	0055	12	.01	.01	.00	1.	*	1	1325	162	.00	.00	.00	0.
1	0100	13	.01	.01	.00	1.	*	1	1330	163	.00	.00	.00	0.
1	0105	14	.01	.01	.00	1.	*	1	1335	164	.00	.00	.00	0.
1	0110	15	.01	.01	.00	1.	*	1	1340	165	.00	.00	.00	0.
1	0115	16	.01	.01	.00	1.	*	1	1345	166	.00	.00	.00	0.
1	0120	17	.01	.01	.00	1.	*	1	1350	167	.00	.00	.00	0.
1	0125	18	.01	.01	.00	1.	*	1	1355	168	.00	.00	.00	0.
1	0130	19	.01	.01	.00	1.	*	1	1400	169	.00	.00	.00	0.
1	0135	20	.01	.01	.00	1.	*	1	1405	170	.00	.00	.00	0.
1	0140	21	.01	.01	.00	1.	*	1	1410	171	.00	.00	.00	0.
1	0145	22	.01	.01	.00	1.	*	1	1415	172	.00	.00	.00	0.
1	0150	23	.01	.01	.00	1.	*	1	1420	173	.00	.00	.00	0.
1	0155	24	.01	.01	.00	1.	*	1	1425	174	.00	.00	.00	0.
1	0200	25	.01	.01	.00	1.	*	1	1430	175	.00	.00	.00	0.
1	0205	26	.01	.01	.00	1.	*	1	1435	176	.00	.00	.00	0.
1	0210	27	.01	.01	.00	1.	*	1	1440	177	.00	.00	.00	0.
1	0215	28	.01	.01	.00	1.	*	1	1445	178	.00	.00	.00	0.
1	0220	29	.01	.01	.00	1.	*	1	1450	179	.00	.00	.00	0.
1	0225	30	.01	.01	.00	1.	*	1	1455	180	.00	.00	.00	0.
1	0230	31	.01	.01	.00	1.	*	1	1500	181	.00	.00	.00	0.
1	0235	32	.01	.01	.00	1.	*	1	1505	182	.00	.00	.00	0.
1	0240	33	.01	.01	.00	1.	*	1	1510	183	.00	.00	.00	0.
1	0245	34	.01	.01	.00	1.	*	1	1515	184	.00	.00	.00	0.
1	0250	35	.02	.01	.01	1.	*	1	1520	185	.00	.00	.00	0.
1	0255	36	.02	.01	.01	1.	*	1	1525	186	.00	.00	.00	0.
1	0300	37	.02	.01	.01	1.	*	1	1530	187	.00	.00	.00	0.
1	0305	38	.02	.01	.01	1.	*	1	1535	188	.00	.00	.00	0.
1	0310	39	.02	.01	.01	1.	*	1	1540	189	.00	.00	.00	0.
1	0315	40	.02	.01	.01	1.	*	1	1545	190	.00	.00	.00	0.
1	0320	41	.08	.05	.02	1.	*	1	1550	191	.00	.00	.00	0.
1	0325	42	.08	.05	.02	2.	*	1	1555	192	.00	.00	.00	0.
1	0330	43	.08	.05	.02	2.	*	1	1600	193	.00	.00	.00	0.
1	0335	44	.16	.11	.05	3.	*	1	1605	194	.00	.00	.00	0.
1	0340	45	.16	.09	.07	4.	*	1	1610	195	.00	.00	.00	0.
1	0345	46	.16	.08	.08	6.	*	1	1615	196	.00	.00	.00	0.
1	0350	47	.45	.07	.38	9.	*	1	1620	197	.00	.00	.00	0.
1	0355	48	.45	.07	.39	16.	*	1	1625	198	.00	.00	.00	0.
1	0400	49	.45	.06	.39	27.	*	1	1630	199	.00	.00	.00	0.
1	0405	50	.08	.05	.02	39.	*	1	1635	200	.00	.00	.00	0.
1	0410	51	.08	.05	.02	45.	*	1	1640	201	.00	.00	.00	0.
1	0415	52	.08	.05	.02	45.	*	1	1645	202	.00	.00	.00	0.
1	0420	53	.02	.01	.01	41.	*	1	1650	203	.00	.00	.00	0.
1	0425	54	.02	.01	.01	36.	*	1	1655	204	.00	.00	.00	0.
1	0430	55	.02	.01	.01	31.	*	1	1700	205	.00	.00	.00	0.
1	0435	56	.02	.01	.01	27.	*	1	1705	206	.00	.00	.00	0.
1	0440	57	.02	.01	.01	23.	*	1	1710	207	.00	.00	.00	0.
1	0445	58	.02	.01	.01	19.	*	1	1715	208	.00	.00	.00	0.
1	0450	59	.01	.01	.00	17.	*	1	1720	209	.00	.00	.00	0.
1	0455	60	.01	.01	.00	14.	*	1	1725	210	.00	.00	.00	0.
1	0500	61	.01	.01	.00	12.	*	1	1730	211	.00	.00	.00	0.

1	0505	62	.01	.01	.00	10.	*	1	1735	212	.00	.00	.00	0.
1	0510	63	.01	.01	.00	9.	*	1	1740	213	.00	.00	.00	0.
1	0515	64	.01	.01	.00	8.	*	1	1745	214	.00	.00	.00	0.
1	0520	65	.01	.01	.00	7.	*	1	1750	215	.00	.00	.00	0.
1	0525	66	.01	.01	.00	6.	*	1	1755	216	.00	.00	.00	0.
1	0530	67	.01	.01	.00	5.	*	1	1800	217	.00	.00	.00	0.
1	0535	68	.01	.01	.00	4.	*	1	1805	218	.00	.00	.00	0.
1	0540	69	.01	.01	.00	4.	*	1	1810	219	.00	.00	.00	0.
1	0545	70	.01	.01	.00	3.	*	1	1815	220	.00	.00	.00	0.
1	0550	71	.01	.01	.00	3.	*	1	1820	221	.00	.00	.00	0.
1	0555	72	.01	.01	.00	3.	*	1	1825	222	.00	.00	.00	0.
1	0600	73	.01	.01	.00	2.	*	1	1830	223	.00	.00	.00	0.
1	0605	74	.00	.00	.00	2.	*	1	1835	224	.00	.00	.00	0.
1	0610	75	.00	.00	.00	2.	*	1	1840	225	.00	.00	.00	0.
1	0615	76	.00	.00	.00	2.	*	1	1845	226	.00	.00	.00	0.
1	0620	77	.00	.00	.00	1.	*	1	1850	227	.00	.00	.00	0.
1	0625	78	.00	.00	.00	1.	*	1	1855	228	.00	.00	.00	0.
1	0630	79	.00	.00	.00	1.	*	1	1900	229	.00	.00	.00	0.
1	0635	80	.00	.00	.00	1.	*	1	1905	230	.00	.00	.00	0.
1	0640	81	.00	.00	.00	0.	*	1	1910	231	.00	.00	.00	0.
1	0645	82	.00	.00	.00	0.	*	1	1915	232	.00	.00	.00	0.
1	0650	83	.00	.00	.00	0.	*	1	1920	233	.00	.00	.00	0.
1	0655	84	.00	.00	.00	0.	*	1	1925	234	.00	.00	.00	0.
1	0700	85	.00	.00	.00	0.	*	1	1930	235	.00	.00	.00	0.
1	0705	86	.00	.00	.00	0.	*	1	1935	236	.00	.00	.00	0.
1	0710	87	.00	.00	.00	0.	*	1	1940	237	.00	.00	.00	0.
1	0715	88	.00	.00	.00	0.	*	1	1945	238	.00	.00	.00	0.
1	0720	89	.00	.00	.00	0.	*	1	1950	239	.00	.00	.00	0.
1	0725	90	.00	.00	.00	0.	*	1	1955	240	.00	.00	.00	0.
1	0730	91	.00	.00	.00	0.	*	1	2000	241	.00	.00	.00	0.
1	0735	92	.00	.00	.00	0.	*	1	2005	242	.00	.00	.00	0.
1	0740	93	.00	.00	.00	0.	*	1	2010	243	.00	.00	.00	0.
1	0745	94	.00	.00	.00	0.	*	1	2015	244	.00	.00	.00	0.
1	0750	95	.00	.00	.00	0.	*	1	2020	245	.00	.00	.00	0.
1	0755	96	.00	.00	.00	0.	*	1	2025	246	.00	.00	.00	0.
1	0800	97	.00	.00	.00	0.	*	1	2030	247	.00	.00	.00	0.
1	0805	98	.00	.00	.00	0.	*	1	2035	248	.00	.00	.00	0.
1	0810	99	.00	.00	.00	0.	*	1	2040	249	.00	.00	.00	0.
1	0815	100	.00	.00	.00	0.	*	1	2045	250	.00	.00	.00	0.
1	0820	101	.00	.00	.00	0.	*	1	2050	251	.00	.00	.00	0.
1	0825	102	.00	.00	.00	0.	*	1	2055	252	.00	.00	.00	0.
1	0830	103	.00	.00	.00	0.	*	1	2100	253	.00	.00	.00	0.
1	0835	104	.00	.00	.00	0.	*	1	2105	254	.00	.00	.00	0.
1	0840	105	.00	.00	.00	0.	*	1	2110	255	.00	.00	.00	0.
1	0845	106	.00	.00	.00	0.	*	1	2115	256	.00	.00	.00	0.
1	0850	107	.00	.00	.00	0.	*	1	2120	257	.00	.00	.00	0.
1	0855	108	.00	.00	.00	0.	*	1	2125	258	.00	.00	.00	0.
1	0900	109	.00	.00	.00	0.	*	1	2130	259	.00	.00	.00	0.
1	0905	110	.00	.00	.00	0.	*	1	2135	260	.00	.00	.00	0.
1	0910	111	.00	.00	.00	0.	*	1	2140	261	.00	.00	.00	0.
1	0915	112	.00	.00	.00	0.	*	1	2145	262	.00	.00	.00	0.
1	0920	113	.00	.00	.00	0.	*	1	2150	263	.00	.00	.00	0.
1	0925	114	.00	.00	.00	0.	*	1	2155	264	.00	.00	.00	0.
1	0930	115	.00	.00	.00	0.	*	1	2200	265	.00	.00	.00	0.
1	0935	116	.00	.00	.00	0.	*	1	2205	266	.00	.00	.00	0.
1	0940	117	.00	.00	.00	0.	*	1	2210	267	.00	.00	.00	0.
1	0945	118	.00	.00	.00	0.	*	1	2215	268	.00	.00	.00	0.
1	0950	119	.00	.00	.00	0.	*	1	2220	269	.00	.00	.00	0.

1	0955	120	.00	.00	.00	0.	*	1	2225	270	.00	.00	.00	0.
1	1000	121	.00	.00	.00	0.	*	1	2230	271	.00	.00	.00	0.
1	1005	122	.00	.00	.00	0.	*	1	2235	272	.00	.00	.00	0.
1	1010	123	.00	.00	.00	0.	*	1	2240	273	.00	.00	.00	0.
1	1015	124	.00	.00	.00	0.	*	1	2245	274	.00	.00	.00	0.
1	1020	125	.00	.00	.00	0.	*	1	2250	275	.00	.00	.00	0.
1	1025	126	.00	.00	.00	0.	*	1	2255	276	.00	.00	.00	0.
1	1030	127	.00	.00	.00	0.	*	1	2300	277	.00	.00	.00	0.
1	1035	128	.00	.00	.00	0.	*	1	2305	278	.00	.00	.00	0.
1	1040	129	.00	.00	.00	0.	*	1	2310	279	.00	.00	.00	0.
1	1045	130	.00	.00	.00	0.	*	1	2315	280	.00	.00	.00	0.
1	1050	131	.00	.00	.00	0.	*	1	2320	281	.00	.00	.00	0.
1	1055	132	.00	.00	.00	0.	*	1	2325	282	.00	.00	.00	0.
1	1100	133	.00	.00	.00	0.	*	1	2330	283	.00	.00	.00	0.
1	1105	134	.00	.00	.00	0.	*	1	2335	284	.00	.00	.00	0.
1	1110	135	.00	.00	.00	0.	*	1	2340	285	.00	.00	.00	0.
1	1115	136	.00	.00	.00	0.	*	1	2345	286	.00	.00	.00	0.
1	1120	137	.00	.00	.00	0.	*	1	2350	287	.00	.00	.00	0.
1	1125	138	.00	.00	.00	0.	*	1	2355	288	.00	.00	.00	0.
1	1130	139	.00	.00	.00	0.	*	2	0000	289	.00	.00	.00	0.
1	1135	140	.00	.00	.00	0.	*	2	0005	290	.00	.00	.00	0.
1	1140	141	.00	.00	.00	0.	*	2	0010	291	.00	.00	.00	0.
1	1145	142	.00	.00	.00	0.	*	2	0015	292	.00	.00	.00	0.
1	1150	143	.00	.00	.00	0.	*	2	0020	293	.00	.00	.00	0.
1	1155	144	.00	.00	.00	0.	*	2	0025	294	.00	.00	.00	0.
1	1200	145	.00	.00	.00	0.	*	2	0030	295	.00	.00	.00	0.
1	1205	146	.00	.00	.00	0.	*	2	0035	296	.00	.00	.00	0.
1	1210	147	.00	.00	.00	0.	*	2	0040	297	.00	.00	.00	0.
1	1215	148	.00	.00	.00	0.	*	2	0045	298	.00	.00	.00	0.
1	1220	149	.00	.00	.00	0.	*	2	0050	299	.00	.00	.00	0.
1	1225	150	.00	.00	.00	0.	*	2	0055	300	.00	.00	.00	0.
							*							

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TOTAL RAINFALL = 2.96, TOTAL LOSS = 1.27, TOTAL EXCESS = 1.69

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
45.	4.17		7.	2.	2.	2.
		(INCHES)	1.672	1.683	1.683	1.683
		(AC-FT)	4.	4.	4.	4.

CUMULATIVE AREA = .04 SQ MI

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          **************
          *            *
45 KK     *   Node7    *
          *            *
          **************
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Route flow through basin to remove developed area storage

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52 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          2  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL         0.  HYDROGRAPH PLOT SCALE

             HYDROGRAPH ROUTING DATA

47 RS          STORAGE ROUTING
                     NSTPS          1  NUMBER OF SUBREACHES
                      ITYP       STOR  TYPE OF INITIAL CONDITION
                    RSVRIC        .00  INITIAL CONDITION
                         X        .00 WORKING R AND D COEFFICIENT

48 SV            STORAGE         .0      2.1      2.2      2.2      2.2      2.2      2.2      2.2      2.3      2.5
                                2.8

50 SQ          DISCHARGE         0.       0.      10.      15.      20.      25.      30.      35.      40.      45.
                                50.

                                                                  ***

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN        0. TO       35.
                THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
                THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

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                                                HYDROGRAPH AT STATION   Node7

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DA	MON	HRMN	ORD	OUTFLOW	STORAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE
1		0000	1	0.	.00	*	1		0820	101	0.	2.13	*	1		1640	201	0.	2.13
1		0005	2	0.	.00	*	1		0825	102	0.	2.13	*	1		1645	202	0.	2.13
1		0010	3	0.	.00	*	1		0830	103	0.	2.13	*	1		1650	203	0.	2.13
1		0015	4	0.	.00	*	1		0835	104	0.	2.13	*	1		1655	204	0.	2.13
1		0020	5	0.	.00	*	1		0840	105	0.	2.13	*	1		1700	205	0.	2.13
1		0025	6	0.	.00	*	1		0845	106	0.	2.13	*	1		1705	206	0.	2.13
1		0030	7	0.	.01	*	1		0850	107	0.	2.13	*	1		1710	207	0.	2.13
1		0035	8	0.	.01	*	1		0855	108	0.	2.13	*	1		1715	208	0.	2.13
1		0040	9	0.	.01	*	1		0900	109	0.	2.13	*	1		1720	209	0.	2.13
1		0045	10	0.	.01	*	1		0905	110	0.	2.13	*	1		1725	210	0.	2.13
1		0050	11	0.	.02	*	1		0910	111	0.	2.13	*	1		1730	211	0.	2.13
1		0055	12	0.	.02	*	1		0915	112	0.	2.13	*	1		1735	212	0.	2.13
1		0100	13	0.	.03	*	1		0920	113	0.	2.13	*	1		1740	213	0.	2.13
1		0105	14	0.	.03	*	1		0925	114	0.	2.13	*	1		1745	214	0.	2.13
1		0110	15	0.	.04	*	1		0930	115	0.	2.13	*	1		1750	215	0.	2.13
1		0115	16	0.	.04	*	1		0935	116	0.	2.13	*	1		1755	216	0.	2.13
1		0120	17	0.	.04	*	1		0940	117	0.	2.13	*	1		1800	217	0.	2.13
1		0125	18	0.	.05	*	1		0945	118	0.	2.13	*	1		1805	218	0.	2.13
1		0130	19	0.	.05	*	1		0950	119	0.	2.13	*	1		1810	219	0.	2.13
1		0135	20	0.	.06	*	1		0955	120	0.	2.13	*	1		1815	220	0.	2.13
1		0140	21	0.	.06	*	1		1000	121	0.	2.13	*	1		1820	221	0.	2.13
1		0145	22	0.	.07	*	1		1005	122	0.	2.13	*	1		1825	222	0.	2.13
1		0150	23	0.	.07	*	1		1010	123	0.	2.13	*	1		1830	223	0.	2.13
1		0155	24	0.	.08	*	1		1015	124	0.	2.13	*	1		1835	224	0.	2.13

1	0200	25	0.	.08	*	1	1020	125	0.	2.13	*	1	1840	225	0.	2.13
1	0205	26	0.	.09	*	1	1025	126	0.	2.13	*	1	1845	226	0.	2.13
1	0210	27	0.	.10	*	1	1030	127	0.	2.13	*	1	1850	227	0.	2.13
1	0215	28	0.	.10	*	1	1035	128	0.	2.13	*	1	1855	228	0.	2.13
1	0220	29	0.	.11	*	1	1040	129	0.	2.13	*	1	1900	229	0.	2.13
1	0225	30	0.	.11	*	1	1045	130	0.	2.13	*	1	1905	230	0.	2.13
1	0230	31	0.	.12	*	1	1050	131	0.	2.13	*	1	1910	231	0.	2.13
1	0235	32	0.	.12	*	1	1055	132	0.	2.13	*	1	1915	232	0.	2.13
1	0240	33	0.	.13	*	1	1100	133	0.	2.13	*	1	1920	233	0.	2.13
1	0245	34	0.	.13	*	1	1105	134	0.	2.13	*	1	1925	234	0.	2.13
1	0250	35	0.	.14	*	1	1110	135	0.	2.13	*	1	1930	235	0.	2.13
1	0255	36	0.	.15	*	1	1115	136	0.	2.13	*	1	1935	236	0.	2.13
1	0300	37	0.	.16	*	1	1120	137	0.	2.13	*	1	1940	237	0.	2.13
1	0305	38	0.	.16	*	1	1125	138	0.	2.13	*	1	1945	238	0.	2.13
1	0310	39	0.	.17	*	1	1130	139	0.	2.13	*	1	1950	239	0.	2.13
1	0315	40	0.	.18	*	1	1135	140	0.	2.13	*	1	1955	240	0.	2.13
1	0320	41	0.	.19	*	1	1140	141	0.	2.13	*	1	2000	241	0.	2.13
1	0325	42	0.	.20	*	1	1145	142	0.	2.13	*	1	2005	242	0.	2.13
1	0330	43	0.	.22	*	1	1150	143	0.	2.13	*	1	2010	243	0.	2.13
1	0335	44	0.	.24	*	1	1155	144	0.	2.13	*	1	2015	244	0.	2.13
1	0340	45	0.	.26	*	1	1200	145	0.	2.13	*	1	2020	245	0.	2.13
1	0345	46	0.	.30	*	1	1205	146	0.	2.13	*	1	2025	246	0.	2.13
1	0350	47	0.	.35	*	1	1210	147	0.	2.13	*	1	2030	247	0.	2.13
1	0355	48	0.	.43	*	1	1215	148	0.	2.13	*	1	2035	248	0.	2.13
1	0400	49	0.	.58	*	1	1220	149	0.	2.13	*	1	2040	249	0.	2.13
1	0405	50	0.	.81	*	1	1225	150	0.	2.13	*	1	2045	250	0.	2.13
1	0410	51	0.	1.10	*	1	1230	151	0.	2.13	*	1	2050	251	0.	2.13
1	0415	52	0.	1.41	*	1	1235	152	0.	2.13	*	1	2055	252	0.	2.13
1	0420	53	0.	1.70	*	1	1240	153	0.	2.13	*	1	2100	253	0.	2.13
1	0425	54	0.	1.97	*	1	1245	154	0.	2.13	*	1	2105	254	0.	2.13
1	0430	55	13.	2.16	*	1	1250	155	0.	2.13	*	1	2110	255	0.	2.13
1	0435	56	33.	2.20	*	1	1255	156	0.	2.13	*	1	2115	256	0.	2.13
1	0440	57	23.	2.18	*	1	1300	157	0.	2.13	*	1	2120	257	0.	2.13
1	0445	58	21.	2.17	*	1	1305	158	0.	2.13	*	1	2125	258	0.	2.13
1	0450	59	17.	2.16	*	1	1310	159	0.	2.13	*	1	2130	259	0.	2.13
1	0455	60	15.	2.16	*	1	1315	160	0.	2.13	*	1	2135	260	0.	2.13
1	0500	61	13.	2.16	*	1	1320	161	0.	2.13	*	1	2140	261	0.	2.13
1	0505	62	11.	2.15	*	1	1325	162	0.	2.13	*	1	2145	262	0.	2.13
1	0510	63	9.	2.15	*	1	1330	163	0.	2.13	*	1	2150	263	0.	2.13
1	0515	64	8.	2.15	*	1	1335	164	0.	2.13	*	1	2155	264	0.	2.13
1	0520	65	7.	2.14	*	1	1340	165	0.	2.13	*	1	2200	265	0.	2.13
1	0525	66	6.	2.14	*	1	1345	166	0.	2.13	*	1	2205	266	0.	2.13
1	0530	67	5.	2.14	*	1	1350	167	0.	2.13	*	1	2210	267	0.	2.13
1	0535	68	4.	2.14	*	1	1355	168	0.	2.13	*	1	2215	268	0.	2.13
1	0540	69	4.	2.14	*	1	1400	169	0.	2.13	*	1	2220	269	0.	2.13
1	0545	70	3.	2.14	*	1	1405	170	0.	2.13	*	1	2225	270	0.	2.13
1	0550	71	3.	2.14	*	1	1410	171	0.	2.13	*	1	2230	271	0.	2.13
1	0555	72	3.	2.14	*	1	1415	172	0.	2.13	*	1	2235	272	0.	2.13
1	0600	73	2.	2.13	*	1	1420	173	0.	2.13	*	1	2240	273	0.	2.13
1	0605	74	2.	2.13	*	1	1425	174	0.	2.13	*	1	2245	274	0.	2.13
1	0610	75	2.	2.13	*	1	1430	175	0.	2.13	*	1	2250	275	0.	2.13
1	0615	76	2.	2.13	*	1	1435	176	0.	2.13	*	1	2255	276	0.	2.13
1	0620	77	1.	2.13	*	1	1440	177	0.	2.13	*	1	2300	277	0.	2.13
1	0625	78	1.	2.13	*	1	1445	178	0.	2.13	*	1	2305	278	0.	2.13
1	0630	79	1.	2.13	*	1	1450	179	0.	2.13	*	1	2310	279	0.	2.13
1	0635	80	1.	2.13	*	1	1455	180	0.	2.13	*	1	2315	280	0.	2.13
1	0640	81	1.	2.13	*	1	1500	181	0.	2.13	*	1	2320	281	0.	2.13
1	0645	82	0.	2.13	*	1	1505	182	0.	2.13	*	1	2325	282	0.	2.13

1	0650	83	0.	2.13	*	1	1510	183	0.	2.13	*	1	2330	283	0.	2.13
1	0655	84	0.	2.13	*	1	1515	184	0.	2.13	*	1	2335	284	0.	2.13
1	0700	85	0.	2.13	*	1	1520	185	0.	2.13	*	1	2340	285	0.	2.13
1	0705	86	0.	2.13	*	1	1525	186	0.	2.13	*	1	2345	286	0.	2.13
1	0710	87	0.	2.13	*	1	1530	187	0.	2.13	*	1	2350	287	0.	2.13
1	0715	88	0.	2.13	*	1	1535	188	0.	2.13	*	1	2355	288	0.	2.13
1	0720	89	0.	2.13	*	1	1540	189	0.	2.13	*	2	0000	289	0.	2.13
1	0725	90	0.	2.13	*	1	1545	190	0.	2.13	*	2	0005	290	0.	2.13
1	0730	91	0.	2.13	*	1	1550	191	0.	2.13	*	2	0010	291	0.	2.13
1	0735	92	0.	2.13	*	1	1555	192	0.	2.13	*	2	0015	292	0.	2.13
1	0740	93	0.	2.13	*	1	1600	193	0.	2.13	*	2	0020	293	0.	2.13
1	0745	94	0.	2.13	*	1	1605	194	0.	2.13	*	2	0025	294	0.	2.13
1	0750	95	0.	2.13	*	1	1610	195	0.	2.13	*	2	0030	295	0.	2.13
1	0755	96	0.	2.13	*	1	1615	196	0.	2.13	*	2	0035	296	0.	2.13
1	0800	97	0.	2.13	*	1	1620	197	0.	2.13	*	2	0040	297	0.	2.13
1	0805	98	0.	2.13	*	1	1625	198	0.	2.13	*	2	0045	298	0.	2.13
1	0810	99	0.	2.13	*	1	1630	199	0.	2.13	*	2	0050	299	0.	2.13
1	0815	100	0.	2.13	*	1	1635	200	0.	2.13	*	2	0055	300	0.	2.13
					*						*					

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)					
		(CFS)				
33.	4.58		3.	1.	1.	1.
		(INCHES)	.685	.685	.685	.685
		(AC-FT)	1.	1.	1.	1.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
(AC-FT)	(HR)				
2.	4.58	2.	2.	2.	2.

CUMULATIVE AREA = .04 SQ MI

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          **************
          *            *
 53 KK    *   Node11   *
          *            *
          **************
                 conflunce g1 and g2

 56 KO        OUTPUT CONTROL VARIABLES
                    IPRNT          2  PRINT CONTROL
                    IPLOT          0  PLOT CONTROL
                    QSCAL         0.  HYDROGRAPH PLOT SCALE

 55 HC        HYDROGRAPH COMBINATION
                    ICOMP          2  NUMBER OF HYDROGRAPHS TO COMBINE
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HYDROGRAPH AT STATION Node11
SUM OF 2 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	29.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	26.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	21.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	19.	1		1245	154	0.	1		1900	229	0.
1		0020	5	0.	1		0635	80	16.	1		1250	155	0.	1		1905	230	0.
1		0025	6	0.	1		0640	81	14.	1		1255	156	0.	1		1910	231	0.
1		0030	7	0.	1		0645	82	12.	1		1300	157	0.	1		1915	232	0.
1		0035	8	0.	1		0650	83	11.	1		1305	158	0.	1		1920	233	0.
1		0040	9	0.	1		0655	84	9.	1		1310	159	0.	1		1925	234	0.
1		0045	10	1.	1		0700	85	8.	1		1315	160	0.	1		1930	235	0.
1		0050	11	1.	1		0705	86	7.	1		1320	161	0.	1		1935	236	0.
1		0055	12	1.	1		0710	87	6.	1		1325	162	0.	1		1940	237	0.
1		0100	13	1.	1		0715	88	6.	1		1330	163	0.	1		1945	238	0.
1		0105	14	1.	1		0720	89	5.	1		1335	164	0.	1		1950	239	0.
1		0110	15	1.	1		0725	90	5.	1		1340	165	0.	1		1955	240	0.
1		0115	16	1.	1		0730	91	4.	1		1345	166	0.	1		2000	241	0.
1		0120	17	1.	1		0735	92	3.	1		1350	167	0.	1		2005	242	0.
1		0125	18	1.	1		0740	93	2.	1		1355	168	0.	1		2010	243	0.
1		0130	19	1.	1		0745	94	1.	1		1400	169	0.	1		2015	244	0.
1		0135	20	1.	1		0750	95	1.	1		1405	170	0.	1		2020	245	0.
1		0140	21	2.	1		0755	96	1.	1		1410	171	0.	1		2025	246	0.
1		0145	22	2.	1		0800	97	0.	1		1415	172	0.	1		2030	247	0.
1		0150	23	2.	1		0805	98	0.	1		1420	173	0.	1		2035	248	0.
1		0155	24	2.	1		0810	99	0.	1		1425	174	0.	1		2040	249	0.
1		0200	25	2.	1		0815	100	0.	1		1430	175	0.	1		2045	250	0.
1		0205	26	2.	1		0820	101	0.	1		1435	176	0.	1		2050	251	0.
1		0210	27	2.	1		0825	102	0.	1		1440	177	0.	1		2055	252	0.
1		0215	28	2.	1		0830	103	0.	1		1445	178	0.	1		2100	253	0.
1		0220	29	2.	1		0835	104	0.	1		1450	179	0.	1		2105	254	0.
1		0225	30	2.	1		0840	105	0.	1		1455	180	0.	1		2110	255	0.
1		0230	31	2.	1		0845	106	0.	1		1500	181	0.	1		2115	256	0.
1		0235	32	2.	1		0850	107	0.	1		1505	182	0.	1		2120	257	0.
1		0240	33	2.	1		0855	108	0.	1		1510	183	0.	1		2125	258	0.
1		0245	34	2.	1		0900	109	0.	1		1515	184	0.	1		2130	259	0.
1		0250	35	2.	1		0905	110	0.	1		1520	185	0.	1		2135	260	0.
1		0255	36	2.	1		0910	111	0.	1		1525	186	0.	1		2140	261	0.
1		0300	37	2.	1		0915	112	0.	1		1530	187	0.	1		2145	262	0.
1		0305	38	2.	1		0920	113	0.	1		1535	188	0.	1		2150	263	0.
1		0310	39	2.	1		0925	114	0.	1		1540	189	0.	1		2155	264	0.
1		0315	40	2.	1		0930	115	0.	1		1545	190	0.	1		2200	265	0.
1		0320	41	3.	1		0935	116	0.	1		1550	191	0.	1		2205	266	0.
1		0325	42	3.	1		0940	117	0.	1		1555	192	0.	1		2210	267	0.
1		0330	43	3.	1		0945	118	0.	1		1600	193	0.	1		2215	268	0.
1		0335	44	3.	1		0950	119	0.	1		1605	194	0.	1		2220	269	0.
1		0340	45	4.	1		0955	120	0.	1		1610	195	0.	1		2225	270	0.
1		0345	46	5.	1		1000	121	0.	1		1615	196	0.	1		2230	271	0.
1		0350	47	9.	1		1005	122	0.	1		1620	197	0.	1		2235	272	0.
1		0355	48	19.	1		1010	123	0.	1		1625	198	0.	1		2240	273	0.

1	0400	49	39.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	75.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	107.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	121.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	133.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	146.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	168.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	193.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	185.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	186.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	184.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	183.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	181.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	179.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	176.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	174.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	171.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	168.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	165.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	162.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	157.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	151.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	142.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	133.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	125.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	102.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	52.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
193.	4.58		59.	15.	14.	14.
		(INCHES)	1.210	1.216	1.216	1.216
		(AC-FT)	29.	29.	29.	29.

CUMULATIVE AREA = .45 SQ MI

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          **************
          *            *
57 KK     *   Node10   *
          *            *
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Route water from culverts to middle of subdivision

63 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE

HYDROGRAPH ROUTING DATA

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59 RS        STORAGE ROUTING
                  NSTPS          1  NUMBER OF SUBREACHES
                  ITYP       STOR  TYPE OF INITIAL CONDITION
                 RSVRIC        .00  INITIAL CONDITION
                      X        .00 WORKING R AND D COEFFICIENT

60 RC        NORMAL DEPTH CHANNEL
                    ANL       .035  LEFT OVERBANK N-VALUE
                   ANCH       .035  MAIN CHANNEL N-VALUE
                    ANR       .035  RIGHT OVERBANK N-VALUE
                  RLNTH       650.  REACH LENGTH
                    SEL      .0022  ENERGY SLOPE
                  ELMAX       15.0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION
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CROSS-SECTION DATA

		--- LEFT OVERBANK ---			+ ------ MAIN CHANNEL		------- + --- RIGHT OVERBANK ---		
62 RY	ELEVATION	15.00	11.00	10.00	5.85	5.85	10.00	11.00	15.00
61 RX	DISTANCE	.00	20.00	120.00	136.60	146.60	162.20	262.20	282.20

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COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	.09	.20	.34	.50	.69	.91	1.16	1.43	1.78
OUTFLOW	.00	6.32	21.74	46.35	81.01	126.67	184.32	254.90	339.36	449.06
ELEVATION	5.85	6.33	6.81	7.29	7.78	8.26	8.74	9.22	9.70	10.18
STORAGE	2.70	4.27	6.04	7.84	9.68	11.55	13.46	15.40	17.38	19.39
OUTFLOW	628.29	931.10	1390.33	1963.47	2640.18	3413.96	4280.30	5235.91	6278.27	7405.46
ELEVATION	10.67	11.15	11.63	12.11	12.59	13.07	13.56	14.04	14.52	15.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 255. TO 7405.
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

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HYDROGRAPH AT STATION Node10

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DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	5.8	*	1		0820	101	0.	.0	5.9	*	1		1640	201	0.	.0	5.8
1		0005	2	0.	.0	5.9	*	1		0825	102	0.	.0	5.9	*	1		1645	202	0.	.0	5.8
1		0010	3	0.	.0	5.9	*	1		0830	103	0.	.0	5.9	*	1		1650	203	0.	.0	5.8
1		0015	4	0.	.0	5.9	*	1		0835	104	0.	.0	5.9	*	1		1655	204	0.	.0	5.8
1		0020	5	0.	.0	5.9	*	1		0840	105	0.	.0	5.9	*	1		1700	205	0.	.0	5.8
1		0025	6	0.	.0	5.9	*	1		0845	106	0.	.0	5.9	*	1		1705	206	0.	.0	5.8
1		0030	7	0.	.0	5.9	*	1		0850	107	0.	.0	5.9	*	1		1710	207	0.	.0	5.8
1		0035	8	0.	.0	5.9	*	1		0855	108	0.	.0	5.9	*	1		1715	208	0.	.0	5.8
1		0040	9	0.	.0	5.9	*	1		0900	109	0.	.0	5.9	*	1		1720	209	0.	.0	5.8
1		0045	10	0.	.0	5.9	*	1		0905	110	0.	.0	5.9	*	1		1725	210	0.	.0	5.8
1		0050	11	0.	.0	5.9	*	1		0910	111	0.	.0	5.9	*	1		1730	211	0.	.0	5.8
1		0055	12	1.	.0	5.9	*	1		0915	112	0.	.0	5.9	*	1		1735	212	0.	.0	5.8

1	0100	13	1.	.0	5.9	*	1	0920	113	0.	.0	5.9	*	1	1740	213	0.	.0	5.8
1	0105	14	1.	.0	5.9	*	1	0925	114	0.	.0	5.9	*	1	1745	214	0.	.0	5.8
1	0110	15	1.	.0	5.9	*	1	0930	115	0.	.0	5.9	*	1	1750	215	0.	.0	5.8
1	0115	16	1.	.0	5.9	*	1	0935	116	0.	.0	5.9	*	1	1755	216	0.	.0	5.8
1	0120	17	1.	.0	5.9	*	1	0940	117	0.	.0	5.9	*	1	1800	217	0.	.0	5.8
1	0125	18	1.	.0	5.9	*	1	0945	118	0.	.0	5.9	*	1	1805	218	0.	.0	5.8
1	0130	19	1.	.0	5.9	*	1	0950	119	0.	.0	5.9	*	1	1810	219	0.	.0	5.8
1	0135	20	1.	.0	6.0	*	1	0955	120	0.	.0	5.9	*	1	1815	220	0.	.0	5.8
1	0140	21	1.	.0	6.0	*	1	1000	121	0.	.0	5.9	*	1	1820	221	0.	.0	5.8
1	0145	22	1.	.0	6.0	*	1	1005	122	0.	.0	5.9	*	1	1825	222	0.	.0	5.8
1	0150	23	2.	.0	6.0	*	1	1010	123	0.	.0	5.9	*	1	1830	223	0.	.0	5.8
1	0155	24	2.	.0	6.0	*	1	1015	124	0.	.0	5.9	*	1	1835	224	0.	.0	5.8
1	0200	25	2.	.0	6.0	*	1	1020	125	0.	.0	5.9	*	1	1840	225	0.	.0	5.8
1	0205	26	2.	.0	6.0	*	1	1025	126	0.	.0	5.9	*	1	1845	226	0.	.0	5.8
1	0210	27	2.	.0	6.0	*	1	1030	127	0.	.0	5.9	*	1	1850	227	0.	.0	5.8
1	0215	28	2.	.0	6.0	*	1	1035	128	0.	.0	5.9	*	1	1855	228	0.	.0	5.8
1	0220	29	2.	.0	6.0	*	1	1040	129	0.	.0	5.9	*	1	1900	229	0.	.0	5.8
1	0225	30	2.	.0	6.0	*	1	1045	130	0.	.0	5.9	*	1	1905	230	0.	.0	5.8
1	0230	31	2.	.0	6.0	*	1	1050	131	0.	.0	5.9	*	1	1910	231	0.	.0	5.8
1	0235	32	2.	.0	6.0	*	1	1055	132	0.	.0	5.9	*	1	1915	232	0.	.0	5.8
1	0240	33	2.	.0	6.0	*	1	1100	133	0.	.0	5.9	*	1	1920	233	0.	.0	5.8
1	0245	34	2.	.0	6.0	*	1	1105	134	0.	.0	5.9	*	1	1925	234	0.	.0	5.8
1	0250	35	2.	.0	6.0	*	1	1110	135	0.	.0	5.9	*	1	1930	235	0.	.0	5.8
1	0255	36	2.	.0	6.0	*	1	1115	136	0.	.0	5.8	*	1	1935	236	0.	.0	5.8
1	0300	37	2.	.0	6.0	*	1	1120	137	0.	.0	5.8	*	1	1940	237	0.	.0	5.8
1	0305	38	2.	.0	6.0	*	1	1125	138	0.	.0	5.8	*	1	1945	238	0.	.0	5.8
1	0310	39	2.	.0	6.0	*	1	1130	139	0.	.0	5.8	*	1	1950	239	0.	.0	5.8
1	0315	40	2.	.0	6.0	*	1	1135	140	0.	.0	5.8	*	1	1955	240	0.	.0	5.8
1	0320	41	2.	.0	6.0	*	1	1140	141	0.	.0	5.8	*	1	2000	241	0.	.0	5.8
1	0325	42	3.	.0	6.0	*	1	1145	142	0.	.0	5.8	*	1	2005	242	0.	.0	5.8
1	0330	43	3.	.0	6.1	*	1	1150	143	0.	.0	5.8	*	1	2010	243	0.	.0	5.8
1	0335	44	3.	.0	6.1	*	1	1155	144	0.	.0	5.8	*	1	2015	244	0.	.0	5.8
1	0340	45	3.	.0	6.1	*	1	1200	145	0.	.0	5.8	*	1	2020	245	0.	.0	5.8
1	0345	46	4.	.1	6.1	*	1	1205	146	0.	.0	5.8	*	1	2025	246	0.	.0	5.8
1	0350	47	5.	.1	6.3	*	1	1210	147	0.	.0	5.8	*	1	2030	247	0.	.0	5.8
1	0355	48	10.	.1	6.5	*	1	1215	148	0.	.0	5.8	*	1	2035	248	0.	.0	5.8
1	0400	49	23.	.2	6.8	*	1	1220	149	0.	.0	5.8	*	1	2040	249	0.	.0	5.8
1	0405	50	49.	.3	7.3	*	1	1225	150	0.	.0	5.8	*	1	2045	250	0.	.0	5.8
1	0410	51	85.	.5	7.8	*	1	1230	151	0.	.0	5.8	*	1	2050	251	0.	.0	5.8
1	0415	52	111.	.6	8.1	*	1	1235	152	0.	.0	5.8	*	1	2055	252	0.	.0	5.8
1	0420	53	125.	.7	8.2	*	1	1240	153	0.	.0	5.8	*	1	2100	253	0.	.0	5.8
1	0425	54	139.	.7	8.4	*	1	1245	154	0.	.0	5.8	*	1	2105	254	0.	.0	5.8
1	0430	55	156.	.8	8.5	*	1	1250	155	0.	.0	5.8	*	1	2110	255	0.	.0	5.8
1	0435	56	179.	.9	8.7	*	1	1255	156	0.	.0	5.8	*	1	2115	256	0.	.0	5.8
1	0440	57	188.	.9	8.8	*	1	1300	157	0.	.0	5.8	*	1	2120	257	0.	.0	5.8
1	0445	58	185.	.9	8.7	*	1	1305	158	0.	.0	5.8	*	1	2125	258	0.	.0	5.8
1	0450	59	185.	.9	8.7	*	1	1310	159	0.	.0	5.8	*	1	2130	259	0.	.0	5.8
1	0455	60	183.	.9	8.7	*	1	1315	160	0.	.0	5.8	*	1	2135	260	0.	.0	5.8
1	0500	61	182.	.9	8.7	*	1	1320	161	0.	.0	5.8	*	1	2140	261	0.	.0	5.8
1	0505	62	180.	.9	8.7	*	1	1325	162	0.	.0	5.8	*	1	2145	262	0.	.0	5.8
1	0510	63	178.	.9	8.7	*	1	1330	163	0.	.0	5.8	*	1	2150	263	0.	.0	5.8
1	0515	64	175.	.9	8.7	*	1	1335	164	0.	.0	5.8	*	1	2155	264	0.	.0	5.8
1	0520	65	173.	.9	8.6	*	1	1340	165	0.	.0	5.8	*	1	2200	265	0.	.0	5.8
1	0525	66	170.	.9	8.6	*	1	1345	166	0.	.0	5.8	*	1	2205	266	0.	.0	5.8
1	0530	67	167.	.8	8.6	*	1	1350	167	0.	.0	5.8	*	1	2210	267	0.	.0	5.8
1	0535	68	164.	.8	8.6	*	1	1355	168	0.	.0	5.8	*	1	2215	268	0.	.0	5.8
1	0540	69	160.	.8	8.5	*	1	1400	169	0.	.0	5.8	*	1	2220	269	0.	.0	5.8
1	0545	70	154.	.8	8.5	*	1	1405	170	0.	.0	5.8	*	1	2225	270	0.	.0	5.8

1	0550	71	147.	.8	8.4	*	1	1410	171	0.	.0	5.8	*	1	2230	271	0.	.0	5.8
1	0555	72	138.	.7	8.4	*	1	1415	172	0.	.0	5.8	*	1	2235	272	0.	.0	5.8
1	0600	73	129.	.7	8.3	*	1	1420	173	0.	.0	5.8	*	1	2240	273	0.	.0	5.8
1	0605	74	115.	.6	8.1	*	1	1425	174	0.	.0	5.8	*	1	2245	274	0.	.0	5.8
1	0610	75	81.	.5	7.8	*	1	1430	175	0.	.0	5.8	*	1	2250	275	0.	.0	5.8
1	0615	76	47.	.3	7.3	*	1	1435	176	0.	.0	5.8	*	1	2255	276	0.	.0	5.8
1	0620	77	32.	.3	7.0	*	1	1440	177	0.	.0	5.8	*	1	2300	277	0.	.0	5.8
1	0625	78	26.	.2	6.9	*	1	1445	178	0.	.0	5.8	*	1	2305	278	0.	.0	5.8
1	0630	79	21.	.2	6.8	*	1	1450	179	0.	.0	5.8	*	1	2310	279	0.	.0	5.8
1	0635	80	19.	.2	6.7	*	1	1455	180	0.	.0	5.8	*	1	2315	280	0.	.0	5.8
1	0640	81	17.	.2	6.7	*	1	1500	181	0.	.0	5.8	*	1	2320	281	0.	.0	5.8
1	0645	82	14.	.1	6.6	*	1	1505	182	0.	.0	5.8	*	1	2325	282	0.	.0	5.8
1	0650	83	13.	.1	6.5	*	1	1510	183	0.	.0	5.8	*	1	2330	283	0.	.0	5.8
1	0655	84	11.	.1	6.5	*	1	1515	184	0.	.0	5.8	*	1	2335	284	0.	.0	5.8
1	0700	85	10.	.1	6.4	*	1	1520	185	0.	.0	5.8	*	1	2340	285	0.	.0	5.8
1	0705	86	8.	.1	6.4	*	1	1525	186	0.	.0	5.8	*	1	2345	286	0.	.0	5.8
1	0710	87	7.	.1	6.4	*	1	1530	187	0.	.0	5.8	*	1	2350	287	0.	.0	5.8
1	0715	88	6.	.1	6.3	*	1	1535	188	0.	.0	5.8	*	1	2355	288	0.	.0	5.8
1	0720	89	6.	.1	6.3	*	1	1540	189	0.	.0	5.8	*	2	0000	289	0.	.0	5.8
1	0725	90	6.	.1	6.3	*	1	1545	190	0.	.0	5.8	*	2	0005	290	0.	.0	5.8
1	0730	91	5.	.1	6.2	*	1	1550	191	0.	.0	5.8	*	2	0010	291	0.	.0	5.8
1	0735	92	4.	.1	6.2	*	1	1555	192	0.	.0	5.8	*	2	0015	292	0.	.0	5.8
1	0740	93	4.	.0	6.1	*	1	1600	193	0.	.0	5.8	*	2	0020	293	0.	.0	5.8
1	0745	94	3.	.0	6.1	*	1	1605	194	0.	.0	5.8	*	2	0025	294	0.	.0	5.8
1	0750	95	2.	.0	6.0	*	1	1610	195	0.	.0	5.8	*	2	0030	295	0.	.0	5.8
1	0755	96	2.	.0	6.0	*	1	1615	196	0.	.0	5.8	*	2	0035	296	0.	.0	5.8
1	0800	97	1.	.0	5.9	*	1	1620	197	0.	.0	5.8	*	2	0040	297	0.	.0	5.8
1	0805	98	1.	.0	5.9	*	1	1625	198	0.	.0	5.8	*	2	0045	298	0.	.0	5.8
1	0810	99	1.	.0	5.9	*	1	1630	199	0.	.0	5.8	*	2	0050	299	0.	.0	5.8
1	0815	100	0.	.0	5.9	*	1	1635	200	0.	.0	5.8	*	2	0055	300	0.	.0	5.8
						*							*						

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)					
		(CFS)				
188.	4.67		59.	15.	14.	14.
		(INCHES)	1.210	1.216	1.216	1.216
		(AC-FT)	29.	29.	29.	29.

EAK STORAGE	TIME		MAXIMUM AVERAGE STORAGE			
			6-HR	24-HR	72-HR	24.92-HR
(AC-FT)	(HR)					
1.	4.67		0.	0.	0.	0.

PEAK STAGE	TIME		MAXIMUM AVERAGE STAGE			
			6-HR	24-HR	72-HR	24.92-HR
(FEET)	(HR)					
8.77	4.67		7.04	6.15	6.14	6.14

CUMULATIVE AREA = .45 SQ MI

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              **************
              *            *
64 KK         *   DEVELO   *     PE RAINFALL FOR G3
              *            *
              **************
                              6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
                              THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
                             L =  .30  Kb = .072  Adj. Slope =   60.9

74 KO            OUTPUT CONTROL VARIABLES
                       IPRNT          2  PRINT CONTROL
                       IPLOT          0  PLOT CONTROL
                       QSCAL         0.  HYDROGRAPH PLOT SCALE

               SUBBASIN RUNOFF DATA

68 BA            SUBBASIN CHARACTERISTICS
                       TAREA        .01  SUBBASIN AREA

                 PRECIPITATION DATA

69 PB                  STORM       2.96  BASIN TOTAL PRECIPITATION

11 PI              INCREMENTAL PRECIPITATION PATTERN
                     .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                     .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                     .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                     .00      .00      .00      .01      .01      .01      .01      .01      .01      .03
                     .03      .03      .05      .05      .05      .15      .15      .15      .03      .03
                     .03      .01      .01      .01      .01      .01      .01      .00      .00      .00
                     .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                     .00      .00

70 LG            GREEN AND AMPT LOSS RATE
                       STRTL        .43  STARTING LOSS
                         DTH        .25  MOISTURE DEFICIT
                        PSIF       3.50  WETTING FRONT SUCTION
                       XKSAT        .51  HYDRAULIC CONDUCTIVITY
                       RTIMP      30.00  PERCENT IMPERVIOUS AREA

71 UC            CLARK UNITGRAPH
                          TC        .30  TIME OF CONCENTRATION
                           R        .50  STORAGE COEFFICIENT

72 UA            ACCUMULATED-AREA VS. TIME,  11 ORDINATES
                        .0       5.0      16.0      30.0      65.0      77.0      84.0      90.0      94.0      97.0
                     100.0

                                                    ***

                                                UNIT HYDROGRAPH PARAMETERS
                                          CLARK   TC=   .30 HR,       R=   .50 HR
                                         SNYDER   TP=   .24 HR,      CP=   .36

                                                UNIT HYDROGRAPH
                                           34 END-OF-PERIOD ORDINATES
                 2.       6.       9.       9.       8.       7.       6.       5.       4.       3.
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3.	2.	2.	2.	1.	1.	1.	1.	1.	1.
1.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.						

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HYDROGRAPH AT STATION DEVELO

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1		0000	1	.00	.00	.00	0.	*	1		1230	151	.00	.00	.00	0.
1		0005	2	.01	.01	.00	0.	*	1		1235	152	.00	.00	.00	0.
1		0010	3	.01	.01	.00	0.	*	1		1240	153	.00	.00	.00	0.
1		0015	4	.01	.01	.00	0.	*	1		1245	154	.00	.00	.00	0.
1		0020	5	.01	.01	.00	0.	*	1		1250	155	.00	.00	.00	0.
1		0025	6	.01	.01	.00	0.	*	1		1255	156	.00	.00	.00	0.
1		0030	7	.01	.01	.00	0.	*	1		1300	157	.00	.00	.00	0.
1		0035	8	.01	.01	.00	0.	*	1		1305	158	.00	.00	.00	0.
1		0040	9	.01	.01	.00	0.	*	1		1310	159	.00	.00	.00	0.
1		0045	10	.01	.01	.00	0.	*	1		1315	160	.00	.00	.00	0.
1		0050	11	.01	.01	.00	0.	*	1		1320	161	.00	.00	.00	0.
1		0055	12	.01	.01	.00	0.	*	1		1325	162	.00	.00	.00	0.
1		0100	13	.01	.01	.00	0.	*	1		1330	163	.00	.00	.00	0.
1		0105	14	.01	.01	.00	0.	*	1		1335	164	.00	.00	.00	0.
1		0110	15	.01	.01	.00	0.	*	1		1340	165	.00	.00	.00	0.
1		0115	16	.01	.01	.00	0.	*	1		1345	166	.00	.00	.00	0.
1		0120	17	.01	.01	.00	0.	*	1		1350	167	.00	.00	.00	0.
1		0125	18	.01	.01	.00	0.	*	1		1355	168	.00	.00	.00	0.
1		0130	19	.01	.01	.00	0.	*	1		1400	169	.00	.00	.00	0.
1		0135	20	.01	.01	.00	0.	*	1		1405	170	.00	.00	.00	0.
1		0140	21	.01	.01	.00	0.	*	1		1410	171	.00	.00	.00	0.
1		0145	22	.01	.01	.00	0.	*	1		1415	172	.00	.00	.00	0.
1		0150	23	.01	.01	.00	0.	*	1		1420	173	.00	.00	.00	0.
1		0155	24	.01	.01	.00	0.	*	1		1425	174	.00	.00	.00	0.
1		0200	25	.01	.01	.00	0.	*	1		1430	175	.00	.00	.00	0.
1		0205	26	.01	.01	.00	0.	*	1		1435	176	.00	.00	.00	0.
1		0210	27	.01	.01	.00	0.	*	1		1440	177	.00	.00	.00	0.
1		0215	28	.01	.01	.00	0.	*	1		1445	178	.00	.00	.00	0.
1		0220	29	.01	.01	.00	0.	*	1		1450	179	.00	.00	.00	0.
1		0225	30	.01	.01	.00	0.	*	1		1455	180	.00	.00	.00	0.
1		0230	31	.01	.01	.00	0.	*	1		1500	181	.00	.00	.00	0.
1		0235	32	.01	.01	.00	0.	*	1		1505	182	.00	.00	.00	0.
1		0240	33	.01	.01	.00	0.	*	1		1510	183	.00	.00	.00	0.
1		0245	34	.01	.01	.00	0.	*	1		1515	184	.00	.00	.00	0.
1		0250	35	.02	.01	.01	0.	*	1		1520	185	.00	.00	.00	0.
1		0255	36	.02	.01	.01	0.	*	1		1525	186	.00	.00	.00	0.
1		0300	37	.02	.01	.01	0.	*	1		1530	187	.00	.00	.00	0.
1		0305	38	.02	.01	.01	0.	*	1		1535	188	.00	.00	.00	0.
1		0310	39	.02	.01	.01	0.	*	1		1540	189	.00	.00	.00	0.
1		0315	40	.02	.01	.01	0.	*	1		1545	190	.00	.00	.00	0.
1		0320	41	.08	.05	.02	0.	*	1		1550	191	.00	.00	.00	0.
1		0325	42	.08	.05	.02	1.	*	1		1555	192	.00	.00	.00	0.
1		0330	43	.08	.05	.02	1.	*	1		1600	193	.00	.00	.00	0.
1		0335	44	.16	.11	.05	1.	*	1		1605	194	.00	.00	.00	0.
1		0340	45	.16	.09	.07	1.	*	1		1610	195	.00	.00	.00	0.
1		0345	46	.16	.08	.08	2.	*	1		1615	196	.00	.00	.00	0.

1	0350	47	.45	.07	.38	3.	*	1	1620	197	.00	.00	.00	0.
1	0355	48	.45	.07	.39	5.	*	1	1625	198	.00	.00	.00	0.
1	0400	49	.45	.06	.39	9.	*	1	1630	199	.00	.00	.00	0.
1	0405	50	.08	.05	.02	11.	*	1	1635	200	.00	.00	.00	0.
1	0410	51	.08	.05	.02	12.	*	1	1640	201	.00	.00	.00	0.
1	0415	52	.08	.05	.02	11.	*	1	1645	202	.00	.00	.00	0.
1	0420	53	.02	.01	.01	9.	*	1	1650	203	.00	.00	.00	0.
1	0425	54	.02	.01	.01	8.	*	1	1655	204	.00	.00	.00	0.
1	0430	55	.02	.01	.01	7.	*	1	1700	205	.00	.00	.00	0.
1	0435	56	.02	.01	.01	6.	*	1	1705	206	.00	.00	.00	0.
1	0440	57	.02	.01	.01	5.	*	1	1710	207	.00	.00	.00	0.
1	0445	58	.02	.01	.01	4.	*	1	1715	208	.00	.00	.00	0.
1	0450	59	.01	.01	.00	4.	*	1	1720	209	.00	.00	.00	0.
1	0455	60	.01	.01	.00	3.	*	1	1725	210	.00	.00	.00	0.
1	0500	61	.01	.01	.00	3.	*	1	1730	211	.00	.00	.00	0.
1	0505	62	.01	.01	.00	2.	*	1	1735	212	.00	.00	.00	0.
1	0510	63	.01	.01	.00	2.	*	1	1740	213	.00	.00	.00	0.
1	0515	64	.01	.01	.00	2.	*	1	1745	214	.00	.00	.00	0.
1	0520	65	.01	.01	.00	2.	*	1	1750	215	.00	.00	.00	0.
1	0525	66	.01	.01	.00	1.	*	1	1755	216	.00	.00	.00	0.
1	0530	67	.01	.01	.00	1.	*	1	1800	217	.00	.00	.00	0.
1	0535	68	.01	.01	.00	1.	*	1	1805	218	.00	.00	.00	0.
1	0540	69	.01	.01	.00	1.	*	1	1810	219	.00	.00	.00	0.
1	0545	70	.01	.01	.00	1.	*	1	1815	220	.00	.00	.00	0.
1	0550	71	.01	.01	.00	1.	*	1	1820	221	.00	.00	.00	0.
1	0555	72	.01	.01	.00	1.	*	1	1825	222	.00	.00	.00	0.
1	0600	73	.01	.01	.00	1.	*	1	1830	223	.00	.00	.00	0.
1	0605	74	.00	.00	.00	0.	*	1	1835	224	.00	.00	.00	0.
1	0610	75	.00	.00	.00	0.	*	1	1840	225	.00	.00	.00	0.
1	0615	76	.00	.00	.00	0.	*	1	1845	226	.00	.00	.00	0.
1	0620	77	.00	.00	.00	0.	*	1	1850	227	.00	.00	.00	0.
1	0625	78	.00	.00	.00	0.	*	1	1855	228	.00	.00	.00	0.
1	0630	79	.00	.00	.00	0.	*	1	1900	229	.00	.00	.00	0.
1	0635	80	.00	.00	.00	0.	*	1	1905	230	.00	.00	.00	0.
1	0640	81	.00	.00	.00	0.	*	1	1910	231	.00	.00	.00	0.
1	0645	82	.00	.00	.00	0.	*	1	1915	232	.00	.00	.00	0.
1	0650	83	.00	.00	.00	0.	*	1	1920	233	.00	.00	.00	0.
1	0655	84	.00	.00	.00	0.	*	1	1925	234	.00	.00	.00	0.
1	0700	85	.00	.00	.00	0.	*	1	1930	235	.00	.00	.00	0.
1	0705	86	.00	.00	.00	0.	*	1	1935	236	.00	.00	.00	0.
1	0710	87	.00	.00	.00	0.	*	1	1940	237	.00	.00	.00	0.
1	0715	88	.00	.00	.00	0.	*	1	1945	238	.00	.00	.00	0.
1	0720	89	.00	.00	.00	0.	*	1	1950	239	.00	.00	.00	0.
1	0725	90	.00	.00	.00	0.	*	1	1955	240	.00	.00	.00	0.
1	0730	91	.00	.00	.00	0.	*	1	2000	241	.00	.00	.00	0.
1	0735	92	.00	.00	.00	0.	*	1	2005	242	.00	.00	.00	0.
1	0740	93	.00	.00	.00	0.	*	1	2010	243	.00	.00	.00	0.
1	0745	94	.00	.00	.00	0.	*	1	2015	244	.00	.00	.00	0.
1	0750	95	.00	.00	.00	0.	*	1	2020	245	.00	.00	.00	0.
1	0755	96	.00	.00	.00	0.	*	1	2025	246	.00	.00	.00	0.
1	0800	97	.00	.00	.00	0.	*	1	2030	247	.00	.00	.00	0.
1	0805	98	.00	.00	.00	0.	*	1	2035	248	.00	.00	.00	0.
1	0810	99	.00	.00	.00	0.	*	1	2040	249	.00	.00	.00	0.
1	0815	100	.00	.00	.00	0.	*	1	2045	250	.00	.00	.00	0.
1	0820	101	.00	.00	.00	0.	*	1	2050	251	.00	.00	.00	0.
1	0825	102	.00	.00	.00	0.	*	1	2055	252	.00	.00	.00	0.
1	0830	103	.00	.00	.00	0.	*	1	2100	253	.00	.00	.00	0.
1	0835	104	.00	.00	.00	0.	*	1	2105	254	.00	.00	.00	0.

1	0840	105	.00	.00	.00	0.	*	1	2110	255	.00	.00	.00	0.
1	0845	106	.00	.00	.00	0.	*	1	2115	256	.00	.00	.00	0.
1	0850	107	.00	.00	.00	0.	*	1	2120	257	.00	.00	.00	0.
1	0855	108	.00	.00	.00	0.	*	1	2125	258	.00	.00	.00	0.
1	0900	109	.00	.00	.00	0.	*	1	2130	259	.00	.00	.00	0.
1	0905	110	.00	.00	.00	0.	*	1	2135	260	.00	.00	.00	0.
1	0910	111	.00	.00	.00	0.	*	1	2140	261	.00	.00	.00	0.
1	0915	112	.00	.00	.00	0.	*	1	2145	262	.00	.00	.00	0.
1	0920	113	.00	.00	.00	0.	*	1	2150	263	.00	.00	.00	0.
1	0925	114	.00	.00	.00	0.	*	1	2155	264	.00	.00	.00	0.
1	0930	115	.00	.00	.00	0.	*	1	2200	265	.00	.00	.00	0.
1	0935	116	.00	.00	.00	0.	*	1	2205	266	.00	.00	.00	0.
1	0940	117	.00	.00	.00	0.	*	1	2210	267	.00	.00	.00	0.
1	0945	118	.00	.00	.00	0.	*	1	2215	268	.00	.00	.00	0.
1	0950	119	.00	.00	.00	0.	*	1	2220	269	.00	.00	.00	0.
1	0955	120	.00	.00	.00	0.	*	1	2225	270	.00	.00	.00	0.
1	1000	121	.00	.00	.00	0.	*	1	2230	271	.00	.00	.00	0.
1	1005	122	.00	.00	.00	0.	*	1	2235	272	.00	.00	.00	0.
1	1010	123	.00	.00	.00	0.	*	1	2240	273	.00	.00	.00	0.
1	1015	124	.00	.00	.00	0.	*	1	2245	274	.00	.00	.00	0.
1	1020	125	.00	.00	.00	0.	*	1	2250	275	.00	.00	.00	0.
1	1025	126	.00	.00	.00	0.	*	1	2255	276	.00	.00	.00	0.
1	1030	127	.00	.00	.00	0.	*	1	2300	277	.00	.00	.00	0.
1	1035	128	.00	.00	.00	0.	*	1	2305	278	.00	.00	.00	0.
1	1040	129	.00	.00	.00	0.	*	1	2310	279	.00	.00	.00	0.
1	1045	130	.00	.00	.00	0.	*	1	2315	280	.00	.00	.00	0.
1	1050	131	.00	.00	.00	0.	*	1	2320	281	.00	.00	.00	0.
1	1055	132	.00	.00	.00	0.	*	1	2325	282	.00	.00	.00	0.
1	1100	133	.00	.00	.00	0.	*	1	2330	283	.00	.00	.00	0.
1	1105	134	.00	.00	.00	0.	*	1	2335	284	.00	.00	.00	0.
1	1110	135	.00	.00	.00	0.	*	1	2340	285	.00	.00	.00	0.
1	1115	136	.00	.00	.00	0.	*	1	2345	286	.00	.00	.00	0.
1	1120	137	.00	.00	.00	0.	*	1	2350	287	.00	.00	.00	0.
1	1125	138	.00	.00	.00	0.	*	1	2355	288	.00	.00	.00	0.
1	1130	139	.00	.00	.00	0.	*	2	0000	289	.00	.00	.00	0.
1	1135	140	.00	.00	.00	0.	*	2	0005	290	.00	.00	.00	0.
1	1140	141	.00	.00	.00	0.	*	2	0010	291	.00	.00	.00	0.
1	1145	142	.00	.00	.00	0.	*	2	0015	292	.00	.00	.00	0.
1	1150	143	.00	.00	.00	0.	*	2	0020	293	.00	.00	.00	0.
1	1155	144	.00	.00	.00	0.	*	2	0025	294	.00	.00	.00	0.
1	1200	145	.00	.00	.00	0.	*	2	0030	295	.00	.00	.00	0.
1	1205	146	.00	.00	.00	0.	*	2	0035	296	.00	.00	.00	0.
1	1210	147	.00	.00	.00	0.	*	2	0040	297	.00	.00	.00	0.
1	1215	148	.00	.00	.00	0.	*	2	0045	298	.00	.00	.00	0.
1	1220	149	.00	.00	.00	0.	*	2	0050	299	.00	.00	.00	0.
1	1225	150	.00	.00	.00	0.	*	2	0055	300	.00	.00	.00	0.
							*							

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TOTAL RAINFALL = 2.96, TOTAL LOSS = 1.27, TOTAL EXCESS = 1.69

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
12.	4.17		2.	0.	0.	0.
		(INCHES)	1.671	1.683	1.683	1.683
		(AC-FT)	1.	1.	1.	1.

CUMULATIVE AREA = .01 SQ MI

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          **************
          *            *
 75 KK    *    Node8   *
          *            *
          **************
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Route area through subdivision to remove retention storage

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 80 KO        OUTPUT CONTROL VARIABLES
                    IPRNT          2  PRINT CONTROL
                    IPLOT          0  PLOT CONTROL
                    QSCAL         0.  HYDROGRAPH PLOT SCALE

            HYDROGRAPH ROUTING DATA

 77 RS        STORAGE ROUTING
                    NSTPS          1  NUMBER OF SUBREACHES
                     ITYP       STOR  TYPE OF INITIAL CONDITION
                   RSVRIC        .00  INITIAL CONDITION
                        X        .00 WORKING R AND D COEFFICIENT

 78 SV          STORAGE        .0       .6       .6       .6       .6       .6       .6

 79 SQ        DISCHARGE        0.       0.      10.      20.      30.      40.      50.
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*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 0. TO 50.
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

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HYDROGRAPH AT STATION Node8

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DA	MON	HRMN	ORD	OUTFLOW	STORAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE
1		0000	1	0.	.00	*	1		0820	101	0.	.58	*	1		1640	201	0.	.58
1		0005	2	0.	.00	*	1		0825	102	0.	.58	*	1		1645	202	0.	.58
1		0010	3	0.	.00	*	1		0830	103	0.	.58	*	1		1650	203	0.	.58
1		0015	4	0.	.00	*	1		0835	104	0.	.58	*	1		1655	204	0.	.58
1		0020	5	0.	.00	*	1		0840	105	0.	.58	*	1		1700	205	0.	.58
1		0025	6	0.	.00	*	1		0845	106	0.	.58	*	1		1705	206	0.	.58
1		0030	7	0.	.00	*	1		0850	107	0.	.58	*	1		1710	207	0.	.58
1		0035	8	0.	.00	*	1		0855	108	0.	.58	*	1		1715	208	0.	.58
1		0040	9	0.	.00	*	1		0900	109	0.	.58	*	1		1720	209	0.	.58
1		0045	10	0.	.00	*	1		0905	110	0.	.58	*	1		1725	210	0.	.58
1		0050	11	0.	.01	*	1		0910	111	0.	.58	*	1		1730	211	0.	.58

1	0055	12	0.	.01	*	1	0915	112	0.	.58	*	1	1735	212	0.	.58
1	0100	13	0.	.01	*	1	0920	113	0.	.58	*	1	1740	213	0.	.58
1	0105	14	0.	.01	*	1	0925	114	0.	.58	*	1	1745	214	0.	.58
1	0110	15	0.	.01	*	1	0930	115	0.	.58	*	1	1750	215	0.	.58
1	0115	16	0.	.01	*	1	0935	116	0.	.58	*	1	1755	216	0.	.58
1	0120	17	0.	.01	*	1	0940	117	0.	.58	*	1	1800	217	0.	.58
1	0125	18	0.	.01	*	1	0945	118	0.	.58	*	1	1805	218	0.	.58
1	0130	19	0.	.01	*	1	0950	119	0.	.58	*	1	1810	219	0.	.58
1	0135	20	0.	.02	*	1	0955	120	0.	.58	*	1	1815	220	0.	.58
1	0140	21	0.	.02	*	1	1000	121	0.	.58	*	1	1820	221	0.	.58
1	0145	22	0.	.02	*	1	1005	122	0.	.58	*	1	1825	222	0.	.58
1	0150	23	0.	.02	*	1	1010	123	0.	.58	*	1	1830	223	0.	.58
1	0155	24	0.	.02	*	1	1015	124	0.	.58	*	1	1835	224	0.	.58
1	0200	25	0.	.02	*	1	1020	125	0.	.58	*	1	1840	225	0.	.58
1	0205	26	0.	.02	*	1	1025	126	0.	.58	*	1	1845	226	0.	.58
1	0210	27	0.	.02	*	1	1030	127	0.	.58	*	1	1850	227	0.	.58
1	0215	28	0.	.03	*	1	1035	128	0.	.58	*	1	1855	228	0.	.58
1	0220	29	0.	.03	*	1	1040	129	0.	.58	*	1	1900	229	0.	.58
1	0225	30	0.	.03	*	1	1045	130	0.	.58	*	1	1905	230	0.	.58
1	0230	31	0.	.03	*	1	1050	131	0.	.58	*	1	1910	231	0.	.58
1	0235	32	0.	.03	*	1	1055	132	0.	.58	*	1	1915	232	0.	.58
1	0240	33	0.	.03	*	1	1100	133	0.	.58	*	1	1920	233	0.	.58
1	0245	34	0.	.03	*	1	1105	134	0.	.58	*	1	1925	234	0.	.58
1	0250	35	0.	.04	*	1	1110	135	0.	.58	*	1	1930	235	0.	.58
1	0255	36	0.	.04	*	1	1115	136	0.	.58	*	1	1935	236	0.	.58
1	0300	37	0.	.04	*	1	1120	137	0.	.58	*	1	1940	237	0.	.58
1	0305	38	0.	.04	*	1	1125	138	0.	.58	*	1	1945	238	0.	.58
1	0310	39	0.	.04	*	1	1130	139	0.	.58	*	1	1950	239	0.	.58
1	0315	40	0.	.05	*	1	1135	140	0.	.58	*	1	1955	240	0.	.58
1	0320	41	0.	.05	*	1	1140	141	0.	.58	*	1	2000	241	0.	.58
1	0325	42	0.	.05	*	1	1145	142	0.	.58	*	1	2005	242	0.	.58
1	0330	43	0.	.06	*	1	1150	143	0.	.58	*	1	2010	243	0.	.58
1	0335	44	0.	.06	*	1	1155	144	0.	.58	*	1	2015	244	0.	.58
1	0340	45	0.	.07	*	1	1200	145	0.	.58	*	1	2020	245	0.	.58
1	0345	46	0.	.08	*	1	1205	146	0.	.58	*	1	2025	246	0.	.58
1	0350	47	0.	.09	*	1	1210	147	0.	.58	*	1	2030	247	0.	.58
1	0355	48	0.	.12	*	1	1215	148	0.	.58	*	1	2035	248	0.	.58
1	0400	49	0.	.17	*	1	1220	149	0.	.58	*	1	2040	249	0.	.58
1	0405	50	0.	.24	*	1	1225	150	0.	.58	*	1	2045	250	0.	.58
1	0410	51	0.	.32	*	1	1230	151	0.	.58	*	1	2050	251	0.	.58
1	0415	52	0.	.40	*	1	1235	152	0.	.58	*	1	2055	252	0.	.58
1	0420	53	0.	.46	*	1	1240	153	0.	.58	*	1	2100	253	0.	.58
1	0425	54	0.	.53	*	1	1245	154	0.	.58	*	1	2105	254	0.	.58
1	0430	55	0.	.58	*	1	1250	155	0.	.58	*	1	2110	255	0.	.58
1	0435	56	8.	.60	*	1	1255	156	0.	.58	*	1	2115	256	0.	.58
1	0440	57	5.	.59	*	1	1300	157	0.	.58	*	1	2120	257	0.	.58
1	0445	58	5.	.59	*	1	1305	158	0.	.58	*	1	2125	258	0.	.58
1	0450	59	4.	.59	*	1	1310	159	0.	.58	*	1	2130	259	0.	.58
1	0455	60	3.	.59	*	1	1315	160	0.	.58	*	1	2135	260	0.	.58
1	0500	61	3.	.59	*	1	1320	161	0.	.58	*	1	2140	261	0.	.58
1	0505	62	3.	.59	*	1	1325	162	0.	.58	*	1	2145	262	0.	.58
1	0510	63	2.	.58	*	1	1330	163	0.	.58	*	1	2150	263	0.	.58
1	0515	64	2.	.58	*	1	1335	164	0.	.58	*	1	2155	264	0.	.58
1	0520	65	2.	.58	*	1	1340	165	0.	.58	*	1	2200	265	0.	.58
1	0525	66	1.	.58	*	1	1345	166	0.	.58	*	1	2205	266	0.	.58
1	0530	67	1.	.58	*	1	1350	167	0.	.58	*	1	2210	267	0.	.58
1	0535	68	1.	.58	*	1	1355	168	0.	.58	*	1	2215	268	0.	.58
1	0540	69	1.	.58	*	1	1400	169	0.	.58	*	1	2220	269	0.	.58

1	0545	70	1.	.58	*	1	1405	170	0.	.58	*	1	2225	270	0.	.58
1	0550	71	1.	.58	*	1	1410	171	0.	.58	*	1	2230	271	0.	.58
1	0555	72	1.	.58	*	1	1415	172	0.	.58	*	1	2235	272	0.	.58
1	0600	73	1.	.58	*	1	1420	173	0.	.58	*	1	2240	273	0.	.58
1	0605	74	1.	.58	*	1	1425	174	0.	.58	*	1	2245	274	0.	.58
1	0610	75	0.	.58	*	1	1430	175	0.	.58	*	1	2250	275	0.	.58
1	0615	76	0.	.58	*	1	1435	176	0.	.58	*	1	2255	276	0.	.58
1	0620	77	0.	.58	*	1	1440	177	0.	.58	*	1	2300	277	0.	.58
1	0625	78	0.	.58	*	1	1445	178	0.	.58	*	1	2305	278	0.	.58
1	0630	79	0.	.58	*	1	1450	179	0.	.58	*	1	2310	279	0.	.58
1	0635	80	0.	.58	*	1	1455	180	0.	.58	*	1	2315	280	0.	.58
1	0640	81	0.	.58	*	1	1500	181	0.	.58	*	1	2320	281	0.	.58
1	0645	82	0.	.58	*	1	1505	182	0.	.58	*	1	2325	282	0.	.58
1	0650	83	0.	.58	*	1	1510	183	0.	.58	*	1	2330	283	0.	.58
1	0655	84	0.	.58	*	1	1515	184	0.	.58	*	1	2335	284	0.	.58
1	0700	85	0.	.58	*	1	1520	185	0.	.58	*	1	2340	285	0.	.58
1	0705	86	0.	.58	*	1	1525	186	0.	.58	*	1	2345	286	0.	.58
1	0710	87	0.	.58	*	1	1530	187	0.	.58	*	1	2350	287	0.	.58
1	0715	88	0.	.58	*	1	1535	188	0.	.58	*	1	2355	288	0.	.58
1	0720	89	0.	.58	*	1	1540	189	0.	.58	*	2	0000	289	0.	.58
1	0725	90	0.	.58	*	1	1545	190	0.	.58	*	2	0005	290	0.	.58
1	0730	91	0.	.58	*	1	1550	191	0.	.58	*	2	0010	291	0.	.58
1	0735	92	0.	.58	*	1	1555	192	0.	.58	*	2	0015	292	0.	.58
1	0740	93	0.	.58	*	1	1600	193	0.	.58	*	2	0020	293	0.	.58
1	0745	94	0.	.58	*	1	1605	194	0.	.58	*	2	0025	294	0.	.58
1	0750	95	0.	.58	*	1	1610	195	0.	.58	*	2	0030	295	0.	.58
1	0755	96	0.	.58	*	1	1615	196	0.	.58	*	2	0035	296	0.	.58
1	0800	97	0.	.58	*	1	1620	197	0.	.58	*	2	0040	297	0.	.58
1	0805	98	0.	.58	*	1	1625	198	0.	.58	*	2	0045	298	0.	.58
1	0810	99	0.	.58	*	1	1630	199	0.	.58	*	2	0050	299	0.	.58
1	0815	100	0.	.58	*	1	1635	200	0.	.58	*	2	0055	300	0.	.58
					*						*					

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
8.	4.58		1.	0.	0.	0.
		(INCHES)	.596	.596	.596	.596
		(AC-FT)	0.	0.	0.	0.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
1.	4.58	1.	1.	0.	0.

CUMULATIVE AREA = .01 SQ MI

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          *            *
 81 KK    *   Node13   *
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              confluence g1-g2 with g3

83 KO        OUTPUT CONTROL VARIABLES
                   IPRNT          2  PRINT CONTROL
                   IPLOT          0  PLOT CONTROL
                   QSCAL         0.  HYDROGRAPH PLOT SCALE

85 KO        OUTPUT CONTROL VARIABLES
                   IPRNT          2  PRINT CONTROL
                   IPLOT          0  PLOT CONTROL
                   QSCAL         0.  HYDROGRAPH PLOT SCALE

84 HC        HYDROGRAPH COMBINATION
                   ICOMP          2  NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION Node13
SUM OF 2 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	47.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	33.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	26.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	22.	1		1245	154	0.	1		1900	229	0.
1		0020	5	0.	1		0635	80	19.	1		1250	155	0.	1		1905	230	0.
1		0025	6	0.	1		0640	81	17.	1		1255	156	0.	1		1910	231	0.
1		0030	7	0.	1		0645	82	15.	1		1300	157	0.	1		1915	232	0.
1		0035	8	0.	1		0650	83	13.	1		1305	158	0.	1		1920	233	0.
1		0040	9	0.	1		0655	84	11.	1		1310	159	0.	1		1925	234	0.
1		0045	10	0.	1		0700	85	10.	1		1315	160	0.	1		1930	235	0.
1		0050	11	0.	1		0705	86	8.	1		1320	161	0.	1		1935	236	0.
1		0055	12	1.	1		0710	87	7.	1		1325	162	0.	1		1940	237	0.
1		0100	13	1.	1		0715	88	7.	1		1330	163	0.	1		1945	238	0.
1		0105	14	1.	1		0720	89	6.	1		1335	164	0.	1		1950	239	0.
1		0110	15	1.	1		0725	90	6.	1		1340	165	0.	1		1955	240	0.
1		0115	16	1.	1		0730	91	5.	1		1345	166	0.	1		2000	241	0.
1		0120	17	1.	1		0735	92	4.	1		1350	167	0.	1		2005	242	0.
1		0125	18	1.	1		0740	93	4.	1		1355	168	0.	1		2010	243	0.
1		0130	19	1.	1		0745	94	3.	1		1400	169	0.	1		2015	244	0.
1		0135	20	1.	1		0750	95	2.	1		1405	170	0.	1		2020	245	0.
1		0140	21	1.	1		0755	96	2.	1		1410	171	0.	1		2025	246	0.
1		0145	22	1.	1		0800	97	1.	1		1415	172	0.	1		2030	247	0.
1		0150	23	2.	1		0805	98	1.	1		1420	173	0.	1		2035	248	0.
1		0155	24	2.	1		0810	99	1.	1		1425	174	0.	1		2040	249	0.
1		0200	25	2.	1		0815	100	0.	1		1430	175	0.	1		2045	250	0.
1		0205	26	2.	1		0820	101	0.	1		1435	176	0.	1		2050	251	0.
1		0210	27	2.	1		0825	102	0.	1		1440	177	0.	1		2055	252	0.
1		0215	28	2.	1		0830	103	0.	1		1445	178	0.	1		2100	253	0.
1		0220	29	2.	1		0835	104	0.	1		1450	179	0.	1		2105	254	0.
1		0225	30	2.	1		0840	105	0.	1		1455	180	0.	1		2110	255	0.

1	0230	31	2.	*	1	0845	106	0.	*	1	1500	181	0.	*	1	2115	256	0.
1	0235	32	2.	*	1	0850	107	0.	*	1	1505	182	0.	*	1	2120	257	0.
1	0240	33	2.	*	1	0855	108	0.	*	1	1510	183	0.	*	1	2125	258	0.
1	0245	34	2.	*	1	0900	109	0.	*	1	1515	184	0.	*	1	2130	259	0.
1	0250	35	2.	*	1	0905	110	0.	*	1	1520	185	0.	*	1	2135	260	0.
1	0255	36	2.	*	1	0910	111	0.	*	1	1525	186	0.	*	1	2140	261	0.
1	0300	37	2.	*	1	0915	112	0.	*	1	1530	187	0.	*	1	2145	262	0.
1	0305	38	2.	*	1	0920	113	0.	*	1	1535	188	0.	*	1	2150	263	0.
1	0310	39	2.	*	1	0925	114	0.	*	1	1540	189	0.	*	1	2155	264	0.
1	0315	40	2.	*	1	0930	115	0.	*	1	1545	190	0.	*	1	2200	265	0.
1	0320	41	2.	*	1	0935	116	0.	*	1	1550	191	0.	*	1	2205	266	0.
1	0325	42	3.	*	1	0940	117	0.	*	1	1555	192	0.	*	1	2210	267	0.
1	0330	43	3.	*	1	0945	118	0.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	3.	*	1	0950	119	0.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	3.	*	1	0955	120	0.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	4.	*	1	1000	121	0.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	5.	*	1	1005	122	0.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	10.	*	1	1010	123	0.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	23.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	49.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	85.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	111.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	125.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	139.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	156.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	187.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	193.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	190.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	189.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	187.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	185.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	182.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	180.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	177.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	174.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	171.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	168.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	165.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	161.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	155.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	147.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	139.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	130.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	115.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	81.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)					
		(CFS)				
193.	4.67		60.	15.	14.	14.
		(INCHES)	1.197	1.202	1.202	1.202
		(AC-FT)	30.	30.	30.	30.

CUMULATIVE AREA = .46 SQ MI

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*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


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          *            *
 86 KK    *    Node10  *
          *            *
          **************
                       Route water from  middle of subdivision to old mcdowell

 92 KO          OUTPUT CONTROL VARIABLES
                      IPRNT           2  PRINT CONTROL
                      IPLOT           0  PLOT CONTROL
                      QSCAL          0.  HYDROGRAPH PLOT SCALE

             HYDROGRAPH ROUTING DATA

 88 RS          STORAGE ROUTING
                      NSTPS           1  NUMBER OF SUBREACHES
                       ITYP        STOR  TYPE OF INITIAL CONDITION
                     RSVRIC         .00  INITIAL CONDITION
                          X         .00 WORKING R AND D COEFFICIENT

 89 RC          NORMAL DEPTH CHANNEL
                        ANL        .035  LEFT OVERBANK N-VALUE
                       ANCH        .035  MAIN CHANNEL N-VALUE
                        ANR        .035  RIGHT OVERBANK N-VALUE
                      RLNTH        650.  REACH LENGTH
                        SEL       .0022  ENERGY SLOPE
                      ELMAX        15.0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                       CROSS-SECTION DATA
                          --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
 91 RY        ELEVATION     15.00     11.00     10.00      5.85      5.85     10.00     11.00     15.00
 90 RX        DISTANCE        .00     20.00    120.00    136.60    146.60    162.20    262.20    282.20

                                                   ***

                                       COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

          STORAGE       .00       .09       .20       .34       .50       .69       .91      1.16      1.43      1.78
          OUTFLOW       .00      6.32     21.74     46.35     81.01    126.67    184.32    254.90    339.36    449.06
        ELEVATION      5.85      6.33      6.81      7.29      7.78      8.26      8.74      9.22      9.70     10.18

          STORAGE      2.70      4.27      6.04      7.84      9.68     11.55     13.46     15.40     17.38     19.39
          OUTFLOW    628.29    931.10   1390.33   1963.47   2640.18   3413.96   4280.30   5235.91   6278.27   7405.46
        ELEVATION     10.67     11.15     11.63     12.11     12.59     13.07     13.56     14.04     14.52     15.00


*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN      255. TO     7405.
               THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
               THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

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HYDROGRAPH AT STATION Node10

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	5.8	1		0820	101	1.	.0	5.9	1		1640	201	0.	.0	5.8
1		0005	2	0.	.0	5.9	1		0825	102	1.	.0	5.9	1		1645	202	0.	.0	5.8
1		0010	3	0.	.0	5.9	1		0830	103	0.	.0	5.9	1		1650	203	0.	.0	5.8
1		0015	4	0.	.0	5.9	1		0835	104	0.	.0	5.9	1		1655	204	0.	.0	5.8
1		0020	5	0.	.0	5.9	1		0840	105	0.	.0	5.9	1		1700	205	0.	.0	5.8
1		0025	6	0.	.0	5.9	1		0845	106	0.	.0	5.9	1		1705	206	0.	.0	5.8
1		0030	7	0.	.0	5.9	1		0850	107	0.	.0	5.9	1		1710	207	0.	.0	5.8
1		0035	8	0.	.0	5.9	1		0855	108	0.	.0	5.9	1		1715	208	0.	.0	5.8
1		0040	9	0.	.0	5.9	1		0900	109	0.	.0	5.9	1		1720	209	0.	.0	5.8
1		0045	10	0.	.0	5.9	1		0905	110	0.	.0	5.9	1		1725	210	0.	.0	5.8
1		0050	11	0.	.0	5.9	1		0910	111	0.	.0	5.9	1		1730	211	0.	.0	5.8
1		0055	12	0.	.0	5.9	1		0915	112	0.	.0	5.9	1		1735	212	0.	.0	5.8
1		0100	13	0.	.0	5.9	1		0920	113	0.	.0	5.9	1		1740	213	0.	.0	5.8
1		0105	14	1.	.0	5.9	1		0925	114	0.	.0	5.9	1		1745	214	0.	.0	5.8
1		0110	15	1.	.0	5.9	1		0930	115	0.	.0	5.9	1		1750	215	0.	.0	5.8
1		0115	16	1.	.0	5.9	1		0935	116	0.	.0	5.9	1		1755	216	0.	.0	5.8
1		0120	17	1.	.0	5.9	1		0940	117	0.	.0	5.9	1		1800	217	0.	.0	5.8
1		0125	18	1.	.0	5.9	1		0945	118	0.	.0	5.9	1		1805	218	0.	.0	5.8
1		0130	19	1.	.0	5.9	1		0950	119	0.	.0	5.9	1		1810	219	0.	.0	5.8
1		0135	20	1.	.0	5.9	1		0955	120	0.	.0	5.9	1		1815	220	0.	.0	5.8
1		0140	21	1.	.0	5.9	1		1000	121	0.	.0	5.9	1		1820	221	0.	.0	5.8
1		0145	22	1.	.0	6.0	1		1005	122	0.	.0	5.9	1		1825	222	0.	.0	5.8
1		0150	23	1.	.0	6.0	1		1010	123	0.	.0	5.9	1		1830	223	0.	.0	5.8
1		0155	24	1.	.0	6.0	1		1015	124	0.	.0	5.9	1		1835	224	0.	.0	5.8
1		0200	25	2.	.0	6.0	1		1020	125	0.	.0	5.9	1		1840	225	0.	.0	5.8
1		0205	26	2.	.0	6.0	1		1025	126	0.	.0	5.9	1		1845	226	0.	.0	5.8
1		0210	27	2.	.0	6.0	1		1030	127	0.	.0	5.9	1		1850	227	0.	.0	5.8
1		0215	28	2.	.0	6.0	1		1035	128	0.	.0	5.9	1		1855	228	0.	.0	5.8
1		0220	29	2.	.0	6.0	1		1040	129	0.	.0	5.9	1		1900	229	0.	.0	5.8
1		0225	30	2.	.0	6.0	1		1045	130	0.	.0	5.9	1		1905	230	0.	.0	5.8
1		0230	31	2.	.0	6.0	1		1050	131	0.	.0	5.9	1		1910	231	0.	.0	5.8
1		0235	32	2.	.0	6.0	1		1055	132	0.	.0	5.9	1		1915	232	0.	.0	5.8
1		0240	33	2.	.0	6.0	1		1100	133	0.	.0	5.9	1		1920	233	0.	.0	5.8
1		0245	34	2.	.0	6.0	1		1105	134	0.	.0	5.9	1		1925	234	0.	.0	5.8
1		0250	35	2.	.0	6.0	1		1110	135	0.	.0	5.9	1		1930	235	0.	.0	5.8
1		0255	36	2.	.0	6.0	1		1115	136	0.	.0	5.9	1		1935	236	0.	.0	5.8
1		0300	37	2.	.0	6.0	1		1120	137	0.	.0	5.9	1		1940	237	0.	.0	5.8
1		0305	38	2.	.0	6.0	1		1125	138	0.	.0	5.9	1		1945	238	0.	.0	5.8
1		0310	39	2.	.0	6.0	1		1130	139	0.	.0	5.9	1		1950	239	0.	.0	5.8
1		0315	40	2.	.0	6.0	1		1135	140	0.	.0	5.8	1		1955	240	0.	.0	5.8
1		0320	41	2.	.0	6.0	1		1140	141	0.	.0	5.8	1		2000	241	0.	.0	5.8
1		0325	42	2.	.0	6.0	1		1145	142	0.	.0	5.8	1		2005	242	0.	.0	5.8
1		0330	43	2.	.0	6.0	1		1150	143	0.	.0	5.8	1		2010	243	0.	.0	5.8
1		0335	44	3.	.0	6.0	1		1155	144	0.	.0	5.8	1		2015	244	0.	.0	5.8
1		0340	45	3.	.0	6.1	1		1200	145	0.	.0	5.8	1		2020	245	0.	.0	5.8
1		0345	46	3.	.0	6.1	1		1205	146	0.	.0	5.8	1		2025	246	0.	.0	5.8
1		0350	47	4.	.1	6.1	1		1210	147	0.	.0	5.8	1		2030	247	0.	.0	5.8
1		0355	48	5.	.1	6.3	1		1215	148	0.	.0	5.8	1		2035	248	0.	.0	5.8
1		0400	49	12.	.1	6.5	1		1220	149	0.	.0	5.8	1		2040	249	0.	.0	5.8
1		0405	50	28.	.2	6.9	1		1225	150	0.	.0	5.8	1		2045	250	0.	.0	5.8
1		0410	51	59.	.4	7.5	1		1230	151	0.	.0	5.8	1		2050	251	0.	.0	5.8
1		0415	52	92.	.5	7.9	1		1235	152	0.	.0	5.8	1		2055	252	0.	.0	5.8

1	0420	53	116.	.6	8.1	*	1	1240	153	0.	.0	5.8	*	1	2100	253	0.	.0	5.8
1	0425	54	130.	.7	8.3	*	1	1245	154	0.	.0	5.8	*	1	2105	254	0.	.0	5.8
1	0430	55	147.	.8	8.4	*	1	1250	155	0.	.0	5.8	*	1	2110	255	0.	.0	5.8
1	0435	56	170.	.9	8.6	*	1	1255	156	0.	.0	5.8	*	1	2115	256	0.	.0	5.8
1	0440	57	189.	.9	8.8	*	1	1300	157	0.	.0	5.8	*	1	2120	257	0.	.0	5.8
1	0445	58	192.	.9	8.8	*	1	1305	158	0.	.0	5.8	*	1	2125	258	0.	.0	5.8
1	0450	59	189.	.9	8.8	*	1	1310	159	0.	.0	5.8	*	1	2130	259	0.	.0	5.8
1	0455	60	188.	.9	8.8	*	1	1315	160	0.	.0	5.8	*	1	2135	260	0.	.0	5.8
1	0500	61	186.	.9	8.7	*	1	1320	161	0.	.0	5.8	*	1	2140	261	0.	.0	5.8
1	0505	62	184.	.9	8.7	*	1	1325	162	0.	.0	5.8	*	1	2145	262	0.	.0	5.8
1	0510	63	181.	.9	8.7	*	1	1330	163	0.	.0	5.8	*	1	2150	263	0.	.0	5.8
1	0515	64	179.	.9	8.7	*	1	1335	164	0.	.0	5.8	*	1	2155	264	0.	.0	5.8
1	0520	65	176.	.9	8.7	*	1	1340	165	0.	.0	5.8	*	1	2200	265	0.	.0	5.8
1	0525	66	173.	.9	8.6	*	1	1345	166	0.	.0	5.8	*	1	2205	266	0.	.0	5.8
1	0530	67	170.	.9	8.6	*	1	1350	167	0.	.0	5.8	*	1	2210	267	0.	.0	5.8
1	0535	68	166.	.8	8.6	*	1	1355	168	0.	.0	5.8	*	1	2215	268	0.	.0	5.8
1	0540	69	163.	.8	8.6	*	1	1400	169	0.	.0	5.8	*	1	2220	269	0.	.0	5.8
1	0545	70	158.	.8	8.5	*	1	1405	170	0.	.0	5.8	*	1	2225	270	0.	.0	5.8
1	0550	71	152.	.8	8.5	*	1	1410	171	0.	.0	5.8	*	1	2230	271	0.	.0	5.8
1	0555	72	144.	.8	8.4	*	1	1415	172	0.	.0	5.8	*	1	2235	272	0.	.0	5.8
1	0600	73	135.	.7	8.3	*	1	1420	173	0.	.0	5.8	*	1	2240	273	0.	.0	5.8
1	0605	74	123.	.7	8.2	*	1	1425	174	0.	.0	5.8	*	1	2245	274	0.	.0	5.8
1	0610	75	101.	.6	8.0	*	1	1430	175	0.	.0	5.8	*	1	2250	275	0.	.0	5.8
1	0615	76	69.	.4	7.6	*	1	1435	176	0.	.0	5.8	*	1	2255	276	0.	.0	5.8
1	0620	77	45.	.3	7.3	*	1	1440	177	0.	.0	5.8	*	1	2300	277	0.	.0	5.8
1	0625	78	33.	.3	7.0	*	1	1445	178	0.	.0	5.8	*	1	2305	278	0.	.0	5.8
1	0630	79	26.	.2	6.9	*	1	1450	179	0.	.0	5.8	*	1	2310	279	0.	.0	5.8
1	0635	80	22.	.2	6.8	*	1	1455	180	0.	.0	5.8	*	1	2315	280	0.	.0	5.8
1	0640	81	19.	.2	6.7	*	1	1500	181	0.	.0	5.8	*	1	2320	281	0.	.0	5.8
1	0645	82	17.	.2	6.7	*	1	1505	182	0.	.0	5.8	*	1	2325	282	0.	.0	5.8
1	0650	83	15.	.1	6.6	*	1	1510	183	0.	.0	5.8	*	1	2330	283	0.	.0	5.8
1	0655	84	13.	.1	6.5	*	1	1515	184	0.	.0	5.8	*	1	2335	284	0.	.0	5.8
1	0700	85	11.	.1	6.5	*	1	1520	185	0.	.0	5.8	*	1	2340	285	0.	.0	5.8
1	0705	86	10.	.1	6.4	*	1	1525	186	0.	.0	5.8	*	1	2345	286	0.	.0	5.8
1	0710	87	9.	.1	6.4	*	1	1530	187	0.	.0	5.8	*	1	2350	287	0.	.0	5.8
1	0715	88	7.	.1	6.4	*	1	1535	188	0.	.0	5.8	*	1	2355	288	0.	.0	5.8
1	0720	89	7.	.1	6.3	*	1	1540	189	0.	.0	5.8	*	2	0000	289	0.	.0	5.8
1	0725	90	6.	.1	6.3	*	1	1545	190	0.	.0	5.8	*	2	0005	290	0.	.0	5.8
1	0730	91	6.	.1	6.3	*	1	1550	191	0.	.0	5.8	*	2	0010	291	0.	.0	5.8
1	0735	92	5.	.1	6.3	*	1	1555	192	0.	.0	5.8	*	2	0015	292	0.	.0	5.8
1	0740	93	5.	.1	6.2	*	1	1600	193	0.	.0	5.8	*	2	0020	293	0.	.0	5.8
1	0745	94	4.	.1	6.2	*	1	1605	194	0.	.0	5.8	*	2	0025	294	0.	.0	5.8
1	0750	95	3.	.0	6.1	*	1	1610	195	0.	.0	5.8	*	2	0030	295	0.	.0	5.8
1	0755	96	3.	.0	6.1	*	1	1615	196	0.	.0	5.8	*	2	0035	296	0.	.0	5.8
1	0800	97	2.	.0	6.0	*	1	1620	197	0.	.0	5.8	*	2	0040	297	0.	.0	5.8
1	0805	98	2.	.0	6.0	*	1	1625	198	0.	.0	5.8	*	2	0045	298	0.	.0	5.8
1	0810	99	1.	.0	6.0	*	1	1630	199	0.	.0	5.8	*	2	0050	299	0.	.0	5.8
1	0815	100	1.	.0	5.9	*	1	1635	200	0.	.0	5.8	*	2	0055	300	0.	.0	5.8
						*							*						

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)					
		(CFS)				
192.	4.75		60.	15.	14.	14.
		(INCHES)	1.196	1.202	1.202	1.202
		(AC-FT)	30.	30.	30.	30.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
1.	4.75	0.	0.	0.	0.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
8.79	4.75	7.05	6.15	6.14	6.14

CUMULATIVE AREA = .46 SQ MI

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              **************
              *            *
 93 KK        *   DEVELO   *     P RAINFALL FOR SUBBASIN G4
              *            *
              **************
                          6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
                          THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
                         L =  .98  Kb = .064  Adj. Slope =   26.3

 103 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

                SUBBASIN RUNOFF DATA

 97 BA           SUBBASIN CHARACTERISTICS
                      TAREA        .25  SUBBASIN AREA

                 PRECIPITATION DATA

 98 PB                STORM       2.96  BASIN TOTAL PRECIPITATION

 11 PI             INCREMENTAL PRECIPITATION PATTERN
                     .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                     .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                     .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                     .00      .00      .00      .01      .01      .01      .01      .01      .01      .03
                     .03      .03      .05      .05      .05      .15      .15      .15      .03      .03
                     .03      .01      .01      .01      .01      .01      .01      .00      .00      .00
                     .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                     .00      .00

 99 LG           GREEN AND AMPT LOSS RATE
                      STRTL        .43  STARTING LOSS
                        DTH        .25  MOISTURE DEFICIT
                       PSIF       3.50  WETTING FRONT SUCTION
                      XKSAT        .51  HYDRAULIC CONDUCTIVITY
                      RTIMP      10.47  PERCENT IMPERVIOUS AREA
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100 UC          CLARK UNITGRAPH
                        TC          .74  TIME OF CONCENTRATION
                         R          .58  STORAGE COEFFICIENT

101 UA          ACCUMULATED-AREA VS. TIME,  11 ORDINATES
                      .0       5.0      16.0      30.0      65.0      77.0      84.0      90.0      94.0      97.0
                   100.0

                                                  ***

                                              UNIT HYDROGRAPH PARAMETERS
                                        CLARK   TC=   .74 HR,       R=   .58 HR
                                       SNYDER   TP=   .42 HR,      CP=   .43

                                              UNIT HYDROGRAPH
                                         41 END-OF-PERIOD ORDINATES
                 8.       33.       77.      134.      166.      167.      160.      150.      138.      124.
               107.       93.       80.       69.       60.       52.       45.       39.       34.       29.
                25.       22.       19.       16.       14.       12.       11.        9.        8.        7.
                 6.        5.        4.        4.        3.        3.        2.        2.        2.        2.
                 1.
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HYDROGRAPH AT STATION DEVELO

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
								*								
1		0000	1	.00	.00	.00	0.	*	1		1230	151	.00	.00	.00	0.
1		0005	2	.01	.01	.00	0.	*	1		1235	152	.00	.00	.00	0.
1		0010	3	.01	.01	.00	0.	*	1		1240	153	.00	.00	.00	0.
1		0015	4	.01	.01	.00	0.	*	1		1245	154	.00	.00	.00	0.
1		0020	5	.01	.01	.00	0.	*	1		1250	155	.00	.00	.00	0.
1		0025	6	.01	.01	.00	0.	*	1		1255	156	.00	.00	.00	0.
1		0030	7	.01	.01	.00	0.	*	1		1300	157	.00	.00	.00	0.
1		0035	8	.01	.01	.00	1.	*	1		1305	158	.00	.00	.00	0.
1		0040	9	.01	.01	.00	1.	*	1		1310	159	.00	.00	.00	0.
1		0045	10	.01	.01	.00	1.	*	1		1315	160	.00	.00	.00	0.
1		0050	11	.01	.01	.00	1.	*	1		1320	161	.00	.00	.00	0.
1		0055	12	.01	.01	.00	1.	*	1		1325	162	.00	.00	.00	0.
1		0100	13	.01	.01	.00	1.	*	1		1330	163	.00	.00	.00	0.
1		0105	14	.01	.01	.00	1.	*	1		1335	164	.00	.00	.00	0.
1		0110	15	.01	.01	.00	1.	*	1		1340	165	.00	.00	.00	0.
1		0115	16	.01	.01	.00	1.	*	1		1345	166	.00	.00	.00	0.
1		0120	17	.01	.01	.00	1.	*	1		1350	167	.00	.00	.00	0.
1		0125	18	.01	.01	.00	1.	*	1		1355	168	.00	.00	.00	0.
1		0130	19	.01	.01	.00	1.	*	1		1400	169	.00	.00	.00	0.
1		0135	20	.01	.01	.00	1.	*	1		1405	170	.00	.00	.00	0.
1		0140	21	.01	.01	.00	2.	*	1		1410	171	.00	.00	.00	0.
1		0145	22	.01	.01	.00	2.	*	1		1415	172	.00	.00	.00	0.
1		0150	23	.01	.01	.00	2.	*	1		1420	173	.00	.00	.00	0.
1		0155	24	.01	.01	.00	2.	*	1		1425	174	.00	.00	.00	0.
1		0200	25	.01	.01	.00	2.	*	1		1430	175	.00	.00	.00	0.
1		0205	26	.01	.01	.00	2.	*	1		1435	176	.00	.00	.00	0.
1		0210	27	.01	.01	.00	2.	*	1		1440	177	.00	.00	.00	0.

1	0215	28	.01	.01	.00	2.	*	1	1445	178	.00	.00	.00	0.
1	0220	29	.01	.01	.00	2.	*	1	1450	179	.00	.00	.00	0.
1	0225	30	.01	.01	.00	2.	*	1	1455	180	.00	.00	.00	0.
1	0230	31	.01	.01	.00	2.	*	1	1500	181	.00	.00	.00	0.
1	0235	32	.01	.01	.00	2.	*	1	1505	182	.00	.00	.00	0.
1	0240	33	.01	.01	.00	2.	*	1	1510	183	.00	.00	.00	0.
1	0245	34	.01	.01	.00	2.	*	1	1515	184	.00	.00	.00	0.
1	0250	35	.02	.02	.00	2.	*	1	1520	185	.00	.00	.00	0.
1	0255	36	.02	.02	.00	2.	*	1	1525	186	.00	.00	.00	0.
1	0300	37	.02	.02	.00	2.	*	1	1530	187	.00	.00	.00	0.
1	0305	38	.02	.02	.00	2.	*	1	1535	188	.00	.00	.00	0.
1	0310	39	.02	.02	.00	3.	*	1	1540	189	.00	.00	.00	0.
1	0315	40	.02	.02	.00	3.	*	1	1545	190	.00	.00	.00	0.
1	0320	41	.08	.07	.01	3.	*	1	1550	191	.00	.00	.00	0.
1	0325	42	.08	.07	.01	3.	*	1	1555	192	.00	.00	.00	0.
1	0330	43	.08	.07	.01	4.	*	1	1600	193	.00	.00	.00	0.
1	0335	44	.16	.14	.02	5.	*	1	1605	194	.00	.00	.00	0.
1	0340	45	.16	.12	.04	6.	*	1	1610	195	.00	.00	.00	0.
1	0345	46	.16	.10	.06	9.	*	1	1615	196	.00	.00	.00	0.
1	0350	47	.45	.09	.36	16.	*	1	1620	197	.00	.00	.00	0.
1	0355	48	.45	.08	.37	33.	*	1	1625	198	.00	.00	.00	0.
1	0400	49	.45	.08	.37	66.	*	1	1630	199	.00	.00	.00	0.
1	0405	50	.08	.07	.01	113.	*	1	1635	200	.00	.00	.00	0.
1	0410	51	.08	.07	.01	161.	*	1	1640	201	.00	.00	.00	0.
1	0415	52	.08	.07	.01	194.	*	1	1645	202	.00	.00	.00	0.
1	0420	53	.02	.02	.00	203.	*	1	1650	203	.00	.00	.00	0.
1	0425	54	.02	.02	.00	196.	*	1	1655	204	.00	.00	.00	0.
1	0430	55	.02	.02	.00	184.	*	1	1700	205	.00	.00	.00	0.
1	0435	56	.02	.02	.00	169.	*	1	1705	206	.00	.00	.00	0.
1	0440	57	.02	.02	.00	152.	*	1	1710	207	.00	.00	.00	0.
1	0445	58	.02	.02	.00	134.	*	1	1715	208	.00	.00	.00	0.
1	0450	59	.01	.01	.00	116.	*	1	1720	209	.00	.00	.00	0.
1	0455	60	.01	.01	.00	101.	*	1	1725	210	.00	.00	.00	0.
1	0500	61	.01	.01	.00	88.	*	1	1730	211	.00	.00	.00	0.
1	0505	62	.01	.01	.00	77.	*	1	1735	212	.00	.00	.00	0.
1	0510	63	.01	.01	.00	67.	*	1	1740	213	.00	.00	.00	0.
1	0515	64	.01	.01	.00	58.	*	1	1745	214	.00	.00	.00	0.
1	0520	65	.01	.01	.00	50.	*	1	1750	215	.00	.00	.00	0.
1	0525	66	.01	.01	.00	44.	*	1	1755	216	.00	.00	.00	0.
1	0530	67	.01	.01	.00	38.	*	1	1800	217	.00	.00	.00	0.
1	0535	68	.01	.01	.00	33.	*	1	1805	218	.00	.00	.00	0.
1	0540	69	.01	.01	.00	29.	*	1	1810	219	.00	.00	.00	0.
1	0545	70	.01	.01	.00	26.	*	1	1815	220	.00	.00	.00	0.
1	0550	71	.01	.01	.00	22.	*	1	1820	221	.00	.00	.00	0.
1	0555	72	.01	.01	.00	20.	*	1	1825	222	.00	.00	.00	0.
1	0600	73	.01	.01	.00	17.	*	1	1830	223	.00	.00	.00	0.
1	0605	74	.00	.00	.00	15.	*	1	1835	224	.00	.00	.00	0.
1	0610	75	.00	.00	.00	13.	*	1	1840	225	.00	.00	.00	0.
1	0615	76	.00	.00	.00	12.	*	1	1845	226	.00	.00	.00	0.
1	0620	77	.00	.00	.00	10.	*	1	1850	227	.00	.00	.00	0.
1	0625	78	.00	.00	.00	9.	*	1	1855	228	.00	.00	.00	0.
1	0630	79	.00	.00	.00	8.	*	1	1900	229	.00	.00	.00	0.
1	0635	80	.00	.00	.00	7.	*	1	1905	230	.00	.00	.00	0.
1	0640	81	.00	.00	.00	6.	*	1	1910	231	.00	.00	.00	0.
1	0645	82	.00	.00	.00	5.	*	1	1915	232	.00	.00	.00	0.
1	0650	83	.00	.00	.00	4.	*	1	1920	233	.00	.00	.00	0.
1	0655	84	.00	.00	.00	4.	*	1	1925	234	.00	.00	.00	0.
1	0700	85	.00	.00	.00	3.	*	1	1930	235	.00	.00	.00	0.

1	0705	86	.00	.00	.00	3.	*	1	1935	236	.00	.00	.00	0.
1	0710	87	.00	.00	.00	2.	*	1	1940	237	.00	.00	.00	0.
1	0715	88	.00	.00	.00	2.	*	1	1945	238	.00	.00	.00	0.
1	0720	89	.00	.00	.00	1.	*	1	1950	239	.00	.00	.00	0.
1	0725	90	.00	.00	.00	0.	*	1	1955	240	.00	.00	.00	0.
1	0730	91	.00	.00	.00	0.	*	1	2000	241	.00	.00	.00	0.
1	0735	92	.00	.00	.00	0.	*	1	2005	242	.00	.00	.00	0.
1	0740	93	.00	.00	.00	0.	*	1	2010	243	.00	.00	.00	0.
1	0745	94	.00	.00	.00	0.	*	1	2015	244	.00	.00	.00	0.
1	0750	95	.00	.00	.00	0.	*	1	2020	245	.00	.00	.00	0.
1	0755	96	.00	.00	.00	0.	*	1	2025	246	.00	.00	.00	0.
1	0800	97	.00	.00	.00	0.	*	1	2030	247	.00	.00	.00	0.
1	0805	98	.00	.00	.00	0.	*	1	2035	248	.00	.00	.00	0.
1	0810	99	.00	.00	.00	0.	*	1	2040	249	.00	.00	.00	0.
1	0815	100	.00	.00	.00	0.	*	1	2045	250	.00	.00	.00	0.
1	0820	101	.00	.00	.00	0.	*	1	2050	251	.00	.00	.00	0.
1	0825	102	.00	.00	.00	0.	*	1	2055	252	.00	.00	.00	0.
1	0830	103	.00	.00	.00	0.	*	1	2100	253	.00	.00	.00	0.
1	0835	104	.00	.00	.00	0.	*	1	2105	254	.00	.00	.00	0.
1	0840	105	.00	.00	.00	0.	*	1	2110	255	.00	.00	.00	0.
1	0845	106	.00	.00	.00	0.	*	1	2115	256	.00	.00	.00	0.
1	0850	107	.00	.00	.00	0.	*	1	2120	257	.00	.00	.00	0.
1	0855	108	.00	.00	.00	0.	*	1	2125	258	.00	.00	.00	0.
1	0900	109	.00	.00	.00	0.	*	1	2130	259	.00	.00	.00	0.
1	0905	110	.00	.00	.00	0.	*	1	2135	260	.00	.00	.00	0.
1	0910	111	.00	.00	.00	0.	*	1	2140	261	.00	.00	.00	0.
1	0915	112	.00	.00	.00	0.	*	1	2145	262	.00	.00	.00	0.
1	0920	113	.00	.00	.00	0.	*	1	2150	263	.00	.00	.00	0.
1	0925	114	.00	.00	.00	0.	*	1	2155	264	.00	.00	.00	0.
1	0930	115	.00	.00	.00	0.	*	1	2200	265	.00	.00	.00	0.
1	0935	116	.00	.00	.00	0.	*	1	2205	266	.00	.00	.00	0.
1	0940	117	.00	.00	.00	0.	*	1	2210	267	.00	.00	.00	0.
1	0945	118	.00	.00	.00	0.	*	1	2215	268	.00	.00	.00	0.
1	0950	119	.00	.00	.00	0.	*	1	2220	269	.00	.00	.00	0.
1	0955	120	.00	.00	.00	0.	*	1	2225	270	.00	.00	.00	0.
1	1000	121	.00	.00	.00	0.	*	1	2230	271	.00	.00	.00	0.
1	1005	122	.00	.00	.00	0.	*	1	2235	272	.00	.00	.00	0.
1	1010	123	.00	.00	.00	0.	*	1	2240	273	.00	.00	.00	0.
1	1015	124	.00	.00	.00	0.	*	1	2245	274	.00	.00	.00	0.
1	1020	125	.00	.00	.00	0.	*	1	2250	275	.00	.00	.00	0.
1	1025	126	.00	.00	.00	0.	*	1	2255	276	.00	.00	.00	0.
1	1030	127	.00	.00	.00	0.	*	1	2300	277	.00	.00	.00	0.
1	1035	128	.00	.00	.00	0.	*	1	2305	278	.00	.00	.00	0.
1	1040	129	.00	.00	.00	0.	*	1	2310	279	.00	.00	.00	0.
1	1045	130	.00	.00	.00	0.	*	1	2315	280	.00	.00	.00	0.
1	1050	131	.00	.00	.00	0.	*	1	2320	281	.00	.00	.00	0.
1	1055	132	.00	.00	.00	0.	*	1	2325	282	.00	.00	.00	0.
1	1100	133	.00	.00	.00	0.	*	1	2330	283	.00	.00	.00	0.
1	1105	134	.00	.00	.00	0.	*	1	2335	284	.00	.00	.00	0.
1	1110	135	.00	.00	.00	0.	*	1	2340	285	.00	.00	.00	0.
1	1115	136	.00	.00	.00	0.	*	1	2345	286	.00	.00	.00	0.
1	1120	137	.00	.00	.00	0.	*	1	2350	287	.00	.00	.00	0.
1	1125	138	.00	.00	.00	0.	*	1	2355	288	.00	.00	.00	0.
1	1130	139	.00	.00	.00	0.	*	2	0000	289	.00	.00	.00	0.
1	1135	140	.00	.00	.00	0.	*	2	0005	290	.00	.00	.00	0.
1	1140	141	.00	.00	.00	0.	*	2	0010	291	.00	.00	.00	0.
1	1145	142	.00	.00	.00	0.	*	2	0015	292	.00	.00	.00	0.
1	1150	143	.00	.00	.00	0.	*	2	0020	293	.00	.00	.00	0.

1	1155	144	.00	.00	.00	0.	*	2	0025	294	.00	.00	.00	0.
1	1200	145	.00	.00	.00	0.	*	2	0030	295	.00	.00	.00	0.
1	1205	146	.00	.00	.00	0.	*	2	0035	296	.00	.00	.00	0.
1	1210	147	.00	.00	.00	0.	*	2	0040	297	.00	.00	.00	0.
1	1215	148	.00	.00	.00	0.	*	2	0045	298	.00	.00	.00	0.
1	1220	149	.00	.00	.00	0.	*	2	0050	299	.00	.00	.00	0.
1	1225	150	.00	.00	.00	0.	*	2	0055	300	.00	.00	.00	0.
							*							

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TOTAL RAINFALL = 2.96, TOTAL LOSS = 1.62, TOTAL EXCESS = 1.34

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
203.	4.33		36.	9.	9.	9.
		(INCHES)	1.323	1.330	1.330	1.330
		(AC-FT)	18.	18.	18.	18.

CUMULATIVE AREA = .25 SQ MI

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          **************
          *            *
104 KK    *    Node9   *
          *            *
          **************
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Route water through detention basin to remove subdivision storage

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111 KO        OUTPUT CONTROL VARIABLES
                    IPRNT          2  PRINT CONTROL
                    IPLOT          0  PLOT CONTROL
                    QSCAL         0.  HYDROGRAPH PLOT SCALE

            HYDROGRAPH ROUTING DATA

106 RS        STORAGE ROUTING
                    NSTPS          1  NUMBER OF SUBREACHES
                     ITYP       STOR  TYPE OF INITIAL CONDITION
                   RSVRIC        .00  INITIAL CONDITION
                        X        .00 WORKING R AND D COEFFICIENT

107 SV          STORAGE          .0       7.6       8.0       9.0      10.0

108 SE        ELEVATION         .00     10.00     11.00     12.00     13.00

109 SL        LOW-LEVEL OUTLET
                    ELEVL        .00  ELEVATION AT CENTER OF OUTLET
                    CAREA       1.00  CROSS-SECTIONAL AREA
                     COQL        .60  COEFFICIENT
                     EXPL        .50  EXPONENT OF HEAD
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110 SS SPILLWAY

CREL	10.00	SPILLWAY CREST ELEVATION
SPWID	25.00	SPILLWAY WIDTH
COQW	2.70	WEIR COEFFICIENT
EXPW	1.50	EXPONENT OF HEAD

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COMPUTED OUTFLOW-ELEVATION DATA

OUTFLOW	.00	3.64	4.02	4.49	5.09	5.87	6.94	8.48	10.89	15.22
ELEVATION	.00	.57	.70	.87	1.12	1.49	2.08	3.10	5.12	10.00
OUTFLOW	15.63	18.27	25.19	38.47	60.20	92.44	137.28	196.78	273.03	368.09
ELEVATION	10.03	10.12	10.28	10.49	10.76	11.09	11.48	11.92	12.43	13.00

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	.43	.53	.66	.85	1.13	1.58	2.35	3.88	7.58
OUTFLOW	.00	3.64	4.02	4.49	5.09	5.87	6.94	8.48	10.89	15.22
ELEVATION	.00	.57	.70	.87	1.12	1.49	2.08	3.10	5.12	10.00
STORAGE	7.59	7.63	7.70	7.78	7.90	8.00	8.09	8.48	8.92	9.00
OUTFLOW	15.63	18.27	25.19	38.47	60.20	83.46	92.44	137.28	196.78	207.59
ELEVATION	10.03	10.12	10.28	10.49	10.76	11.00	11.09	11.48	11.92	12.00
STORAGE	9.43	10.00								
OUTFLOW	273.03	368.09								
ELEVATION	12.43	13.00								

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HYDROGRAPH AT STATION Node9

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DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	.0	1		0820	101	13.	5.6	7.4	1		1640	201	2.	.2	.3
1		0005	2	0.	.0	.0	1		0825	102	13.	5.5	7.3	1		1645	202	2.	.2	.3
1		0010	3	0.	.0	.0	1		0830	103	13.	5.4	7.2	1		1650	203	2.	.2	.3
1		0015	4	0.	.0	.0	1		0835	104	13.	5.4	7.1	1		1655	204	2.	.2	.3
1		0020	5	0.	.0	.0	1		0840	105	13.	5.3	7.0	1		1700	205	2.	.2	.3
1		0025	6	0.	.0	.0	1		0845	106	12.	5.2	6.8	1		1705	206	2.	.2	.2
1		0030	7	0.	.0	.0	1		0850	107	12.	5.1	6.7	1		1710	207	1.	.2	.2
1		0035	8	0.	.0	.0	1		0855	108	12.	5.0	6.6	1		1715	208	1.	.2	.2
1		0040	9	0.	.0	.0	1		0900	109	12.	4.9	6.5	1		1720	209	1.	.2	.2
1		0045	10	0.	.0	.0	1		0905	110	12.	4.8	6.4	1		1725	210	1.	.1	.2
1		0050	11	0.	.0	.0	1		0910	111	12.	4.8	6.3	1		1730	211	1.	.1	.2
1		0055	12	0.	.0	.0	1		0915	112	12.	4.7	6.2	1		1735	212	1.	.1	.2
1		0100	13	0.	.0	.0	1		0920	113	12.	4.6	6.1	1		1740	213	1.	.1	.2
1		0105	14	0.	.0	.1	1		0925	114	12.	4.5	6.0	1		1745	214	1.	.1	.2
1		0110	15	0.	.0	.1	1		0930	115	12.	4.4	5.9	1		1750	215	1.	.1	.1
1		0115	16	0.	.1	.1	1		0935	116	11.	4.4	5.8	1		1755	216	1.	.1	.1
1		0120	17	0.	.1	.1	1		0940	117	11.	4.3	5.7	1		1800	217	1.	.1	.1
1		0125	18	1.	.1	.1	1		0945	118	11.	4.2	5.6	1		1805	218	1.	.1	.1
1		0130	19	1.	.1	.1	1		0950	119	11.	4.1	5.4	1		1810	219	1.	.1	.1

1	0135	20	1.	.1	.1	*	1	0955	120	11.	4.1	5.3	*	1	1815	220	1.	.1	.1
1	0140	21	1.	.1	.1	*	1	1000	121	11.	4.0	5.2	*	1	1820	221	1.	.1	.1
1	0145	22	1.	.1	.1	*	1	1005	122	11.	3.9	5.1	*	1	1825	222	1.	.1	.1
1	0150	23	1.	.1	.1	*	1	1010	123	11.	3.8	5.0	*	1	1830	223	1.	.1	.1
1	0155	24	1.	.1	.1	*	1	1015	124	11.	3.8	5.0	*	1	1835	224	1.	.1	.1
1	0200	25	1.	.1	.1	*	1	1020	125	11.	3.7	4.9	*	1	1840	225	1.	.1	.1
1	0205	26	1.	.1	.1	*	1	1025	126	10.	3.6	4.8	*	1	1845	226	0.	.1	.1
1	0210	27	1.	.1	.1	*	1	1030	127	10.	3.5	4.7	*	1	1850	227	0.	.1	.1
1	0215	28	1.	.1	.2	*	1	1035	128	10.	3.5	4.6	*	1	1855	228	0.	.1	.1
1	0220	29	1.	.1	.2	*	1	1040	129	10.	3.4	4.5	*	1	1900	229	0.	.0	.1
1	0225	30	1.	.1	.2	*	1	1045	130	10.	3.3	4.4	*	1	1905	230	0.	.0	.1
1	0230	31	1.	.1	.2	*	1	1050	131	10.	3.3	4.3	*	1	1910	231	0.	.0	.1
1	0235	32	1.	.1	.2	*	1	1055	132	10.	3.2	4.2	*	1	1915	232	0.	.0	.1
1	0240	33	1.	.1	.2	*	1	1100	133	10.	3.1	4.1	*	1	1920	233	0.	.0	.1
1	0245	34	1.	.1	.2	*	1	1105	134	10.	3.1	4.0	*	1	1925	234	0.	.0	.0
1	0250	35	1.	.1	.2	*	1	1110	135	9.	3.0	3.9	*	1	1930	235	0.	.0	.0
1	0255	36	1.	.2	.2	*	1	1115	136	9.	2.9	3.9	*	1	1935	236	0.	.0	.0
1	0300	37	1.	.2	.2	*	1	1120	137	9.	2.9	3.8	*	1	1940	237	0.	.0	.0
1	0305	38	1.	.2	.2	*	1	1125	138	9.	2.8	3.7	*	1	1945	238	0.	.0	.0
1	0310	39	1.	.2	.2	*	1	1130	139	9.	2.7	3.6	*	1	1950	239	0.	.0	.0
1	0315	40	2.	.2	.2	*	1	1135	140	9.	2.7	3.5	*	1	1955	240	0.	.0	.0
1	0320	41	2.	.2	.2	*	1	1140	141	9.	2.6	3.4	*	1	2000	241	0.	.0	.0
1	0325	42	2.	.2	.3	*	1	1145	142	9.	2.6	3.4	*	1	2005	242	0.	.0	.0
1	0330	43	2.	.2	.3	*	1	1150	143	9.	2.5	3.3	*	1	2010	243	0.	.0	.0
1	0335	44	2.	.2	.3	*	1	1155	144	9.	2.4	3.2	*	1	2015	244	0.	.0	.0
1	0340	45	2.	.3	.3	*	1	1200	145	9.	2.4	3.1	*	1	2020	245	0.	.0	.0
1	0345	46	2.	.3	.4	*	1	1205	146	8.	2.3	3.1	*	1	2025	246	0.	.0	.0
1	0350	47	3.	.4	.5	*	1	1210	147	8.	2.3	3.0	*	1	2030	247	0.	.0	.0
1	0355	48	4.	.5	.7	*	1	1215	148	8.	2.2	2.9	*	1	2035	248	0.	.0	.0
1	0400	49	5.	.8	1.1	*	1	1220	149	8.	2.1	2.8	*	1	2040	249	0.	.0	.0
1	0405	50	6.	1.4	1.8	*	1	1225	150	8.	2.1	2.8	*	1	2045	250	0.	.0	.0
1	0410	51	8.	2.3	3.0	*	1	1230	151	8.	2.0	2.7	*	1	2050	251	0.	.0	.0
1	0415	52	10.	3.4	4.5	*	1	1235	152	8.	2.0	2.6	*	1	2055	252	0.	.0	.0
1	0420	53	12.	4.7	6.2	*	1	1240	153	8.	1.9	2.5	*	1	2100	253	0.	.0	.0
1	0425	54	13.	6.0	7.9	*	1	1245	154	8.	1.9	2.5	*	1	2105	254	0.	.0	.0
1	0430	55	15.	7.2	9.5	*	1	1250	155	7.	1.8	2.4	*	1	2110	255	0.	.0	.0
1	0435	56	92.	8.1	11.1	*	1	1255	156	7.	1.8	2.3	*	1	2115	256	0.	.0	.0
1	0440	57	131.	8.4	11.4	*	1	1300	157	7.	1.7	2.3	*	1	2120	257	0.	.0	.0
1	0445	58	138.	8.5	11.5	*	1	1305	158	7.	1.7	2.2	*	1	2125	258	0.	.0	.0
1	0450	59	130.	8.4	11.4	*	1	1310	159	7.	1.6	2.1	*	1	2130	259	0.	.0	.0
1	0455	60	118.	8.3	11.3	*	1	1315	160	7.	1.6	2.1	*	1	2135	260	0.	.0	.0
1	0500	61	105.	8.2	11.2	*	1	1320	161	7.	1.5	2.0	*	1	2140	261	0.	.0	.0
1	0505	62	92.	8.1	11.1	*	1	1325	162	7.	1.5	2.0	*	1	2145	262	0.	.0	.0
1	0510	63	80.	8.0	11.0	*	1	1330	163	7.	1.4	1.9	*	1	2150	263	0.	.0	.0
1	0515	64	64.	7.9	10.8	*	1	1335	164	6.	1.4	1.8	*	1	2155	264	0.	.0	.0
1	0520	65	56.	7.9	10.7	*	1	1340	165	6.	1.3	1.8	*	1	2200	265	0.	.0	.0
1	0525	66	49.	7.8	10.6	*	1	1345	166	6.	1.3	1.7	*	1	2205	266	0.	.0	.0
1	0530	67	43.	7.8	10.5	*	1	1350	167	6.	1.3	1.7	*	1	2210	267	0.	.0	.0
1	0535	68	37.	7.8	10.5	*	1	1355	168	6.	1.2	1.6	*	1	2215	268	0.	.0	.0
1	0540	69	33.	7.7	10.4	*	1	1400	169	6.	1.2	1.6	*	1	2220	269	0.	.0	.0
1	0545	70	29.	7.7	10.3	*	1	1405	170	6.	1.1	1.5	*	1	2225	270	0.	.0	.0
1	0550	71	26.	7.7	10.3	*	1	1410	171	6.	1.1	1.4	*	1	2230	271	0.	.0	.0
1	0555	72	23.	7.7	10.2	*	1	1415	172	6.	1.1	1.4	*	1	2235	272	0.	.0	.0
1	0600	73	20.	7.7	10.2	*	1	1420	173	6.	1.0	1.3	*	1	2240	273	0.	.0	.0
1	0605	74	18.	7.6	10.1	*	1	1425	174	5.	1.0	1.3	*	1	2245	274	0.	.0	.0
1	0610	75	17.	7.6	10.1	*	1	1430	175	5.	.9	1.2	*	1	2250	275	0.	.0	.0
1	0615	76	15.	7.6	10.0	*	1	1435	176	5.	.9	1.2	*	1	2255	276	0.	.0	.0
1	0620	77	15.	7.6	10.0	*	1	1440	177	5.	.9	1.1	*	1	2300	277	0.	.0	.0

1	0625	78	15.	7.5	9.9	*	1	1445	178	5.	.8	1.1	*	1	2305	278	0.	.0	.0
1	0630	79	15.	7.5	9.9	*	1	1450	179	5.	.8	1.1	*	1	2310	279	0.	.0	.0
1	0635	80	15.	7.4	9.8	*	1	1455	180	5.	.8	1.0	*	1	2315	280	0.	.0	.0
1	0640	81	15.	7.4	9.7	*	1	1500	181	5.	.7	1.0	*	1	2320	281	0.	.0	.0
1	0645	82	15.	7.3	9.6	*	1	1505	182	5.	.7	.9	*	1	2325	282	0.	.0	.0
1	0650	83	15.	7.2	9.5	*	1	1510	183	5.	.7	.9	*	1	2330	283	0.	.0	.0
1	0655	84	15.	7.1	9.4	*	1	1515	184	4.	.6	.8	*	1	2335	284	0.	.0	.0
1	0700	85	15.	7.1	9.3	*	1	1520	185	4.	.6	.8	*	1	2340	285	0.	.0	.0
1	0705	86	15.	7.0	9.2	*	1	1525	186	4.	.6	.8	*	1	2345	286	0.	.0	.0
1	0710	87	14.	6.9	9.1	*	1	1530	187	4.	.6	.7	*	1	2350	287	0.	.0	.0
1	0715	88	14.	6.8	9.0	*	1	1535	188	4.	.5	.7	*	1	2355	288	0.	.0	.0
1	0720	89	14.	6.7	8.9	*	1	1540	189	4.	.5	.7	*	2	0000	289	0.	.0	.0
1	0725	90	14.	6.6	8.8	*	1	1545	190	4.	.5	.6	*	2	0005	290	0.	.0	.0
1	0730	91	14.	6.5	8.6	*	1	1550	191	4.	.4	.6	*	2	0010	291	0.	.0	.0
1	0735	92	14.	6.4	8.5	*	1	1555	192	4.	.4	.6	*	2	0015	292	0.	.0	.0
1	0740	93	14.	6.4	8.4	*	1	1600	193	3.	.4	.5	*	2	0020	293	0.	.0	.0
1	0745	94	14.	6.3	8.3	*	1	1605	194	3.	.4	.5	*	2	0025	294	0.	.0	.0
1	0750	95	14.	6.2	8.1	*	1	1610	195	3.	.4	.5	*	2	0030	295	0.	.0	.0
1	0755	96	13.	6.1	8.0	*	1	1615	196	3.	.3	.4	*	2	0035	296	0.	.0	.0
1	0800	97	13.	6.0	7.9	*	1	1620	197	3.	.3	.4	*	2	0040	297	0.	.0	.0
1	0805	98	13.	5.9	7.8	*	1	1625	198	2.	.3	.4	*	2	0045	298	0.	.0	.0
1	0810	99	13.	5.8	7.7	*	1	1630	199	2.	.3	.4	*	2	0050	299	0.	.0	.0
1	0815	100	13.	5.7	7.5	*	1	1635	200	2.	.3	.3	*	2	0055	300	0.	.0	.0
						*							*						

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
138.	4.75		28.	9.	9.	9.
		(INCHES)	1.015	1.330	1.330	1.330
		(AC-FT)	14.	18.	18.	18.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
8.	4.75	6.	2.	2.	2.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
11.48	4.75	8.45	2.76	2.66	2.66

CUMULATIVE AREA = .25 SQ MI

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              *            *
112 KK        *   Node15   *
              *            *
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confluence g1-g2-g3 with g4

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115 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          2  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL         0.  HYDROGRAPH PLOT SCALE

114 HC          HYDROGRAPH COMBINATION
                     ICOMP          2  NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION Node15
SUM OF 2 HYDROGRAPHS

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	84.	1		1230	151	8.	1		1845	226	0.
1		0005	2	0.	1		0620	77	60.	1		1235	152	8.	1		1850	227	0.
1		0010	3	0.	1		0625	78	48.	1		1240	153	8.	1		1855	228	0.
1		0015	4	0.	1		0630	79	41.	1		1245	154	8.	1		1900	229	0.
1		0020	5	0.	1		0635	80	37.	1		1250	155	7.	1		1905	230	0.
1		0025	6	0.	1		0640	81	34.	1		1255	156	7.	1		1910	231	0.
1		0030	7	0.	1		0645	82	32.	1		1300	157	7.	1		1915	232	0.
1		0035	8	0.	1		0650	83	30.	1		1305	158	7.	1		1920	233	0.
1		0040	9	0.	1		0655	84	28.	1		1310	159	7.	1		1925	234	0.
1		0045	10	0.	1		0700	85	26.	1		1315	160	7.	1		1930	235	0.
1		0050	11	0.	1		0705	86	24.	1		1320	161	7.	1		1935	236	0.
1		0055	12	1.	1		0710	87	23.	1		1325	162	7.	1		1940	237	0.
1		0100	13	1.	1		0715	88	22.	1		1330	163	7.	1		1945	238	0.
1		0105	14	1.	1		0720	89	21.	1		1335	164	6.	1		1950	239	0.
1		0110	15	1.	1		0725	90	20.	1		1340	165	6.	1		1955	240	0.
1		0115	16	1.	1		0730	91	20.	1		1345	166	6.	1		2000	241	0.
1		0120	17	1.	1		0735	92	19.	1		1350	167	6.	1		2005	242	0.
1		0125	18	2.	1		0740	93	19.	1		1355	168	6.	1		2010	243	0.
1		0130	19	2.	1		0745	94	18.	1		1400	169	6.	1		2015	244	0.
1		0135	20	2.	1		0750	95	17.	1		1405	170	6.	1		2020	245	0.
1		0140	21	2.	1		0755	96	16.	1		1410	171	6.	1		2025	246	0.
1		0145	22	2.	1		0800	97	16.	1		1415	172	6.	1		2030	247	0.
1		0150	23	2.	1		0805	98	15.	1		1420	173	6.	1		2035	248	0.
1		0155	24	2.	1		0810	99	14.	1		1425	174	5.	1		2040	249	0.
1		0200	25	2.	1		0815	100	14.	1		1430	175	5.	1		2045	250	0.
1		0205	26	2.	1		0820	101	14.	1		1435	176	5.	1		2050	251	0.
1		0210	27	3.	1		0825	102	13.	1		1440	177	5.	1		2055	252	0.
1		0215	28	3.	1		0830	103	13.	1		1445	178	5.	1		2100	253	0.
1		0220	29	3.	1		0835	104	13.	1		1450	179	5.	1		2105	254	0.
1		0225	30	3.	1		0840	105	13.	1		1455	180	5.	1		2110	255	0.
1		0230	31	3.	1		0845	106	13.	1		1500	181	5.	1		2115	256	0.
1		0235	32	3.	1		0850	107	12.	1		1505	182	5.	1		2120	257	0.
1		0240	33	3.	1		0855	108	12.	1		1510	183	5.	1		2125	258	0.
1		0245	34	3.	1		0900	109	12.	1		1515	184	4.	1		2130	259	0.
1		0250	35	3.	1		0905	110	12.	1		1520	185	4.	1		2135	260	0.
1		0255	36	3.	1		0910	111	12.	1		1525	186	4.	1		2140	261	0.
1		0300	37	3.	1		0915	112	12.	1		1530	187	4.	1		2145	262	0.
1		0305	38	3.	1		0920	113	12.	1		1535	188	4.	1		2150	263	0.

1	0310	39	3.	*	1	0925	114	12.	*	1	1540	189	4.	*	1	2155	264	0.
1	0315	40	4.	*	1	0930	115	12.	*	1	1545	190	4.	*	1	2200	265	0.
1	0320	41	4.	*	1	0935	116	11.	*	1	1550	191	4.	*	1	2205	266	0.
1	0325	42	4.	*	1	0940	117	11.	*	1	1555	192	4.	*	1	2210	267	0.
1	0330	43	4.	*	1	0945	118	11.	*	1	1600	193	3.	*	1	2215	268	0.
1	0335	44	4.	*	1	0950	119	11.	*	1	1605	194	3.	*	1	2220	269	0.
1	0340	45	5.	*	1	0955	120	11.	*	1	1610	195	3.	*	1	2225	270	0.
1	0345	46	6.	*	1	1000	121	11.	*	1	1615	196	3.	*	1	2230	271	0.
1	0350	47	7.	*	1	1005	122	11.	*	1	1620	197	3.	*	1	2235	272	0.
1	0355	48	9.	*	1	1010	123	11.	*	1	1625	198	2.	*	1	2240	273	0.
1	0400	49	17.	*	1	1015	124	11.	*	1	1630	199	2.	*	1	2245	274	0.
1	0405	50	35.	*	1	1020	125	11.	*	1	1635	200	2.	*	1	2250	275	0.
1	0410	51	67.	*	1	1025	126	10.	*	1	1640	201	2.	*	1	2255	276	0.
1	0415	52	102.	*	1	1030	127	10.	*	1	1645	202	2.	*	1	2300	277	0.
1	0420	53	127.	*	1	1035	128	10.	*	1	1650	203	2.	*	1	2305	278	0.
1	0425	54	144.	*	1	1040	129	10.	*	1	1655	204	2.	*	1	2310	279	0.
1	0430	55	161.	*	1	1045	130	10.	*	1	1700	205	2.	*	1	2315	280	0.
1	0435	56	262.	*	1	1050	131	10.	*	1	1705	206	2.	*	1	2320	281	0.
1	0440	57	320.	*	1	1055	132	10.	*	1	1710	207	1.	*	1	2325	282	0.
1	0445	58	329.	*	1	1100	133	10.	*	1	1715	208	1.	*	1	2330	283	0.
1	0450	59	320.	*	1	1105	134	10.	*	1	1720	209	1.	*	1	2335	284	0.
1	0455	60	306.	*	1	1110	135	9.	*	1	1725	210	1.	*	1	2340	285	0.
1	0500	61	290.	*	1	1115	136	9.	*	1	1730	211	1.	*	1	2345	286	0.
1	0505	62	276.	*	1	1120	137	9.	*	1	1735	212	1.	*	1	2350	287	0.
1	0510	63	261.	*	1	1125	138	9.	*	1	1740	213	1.	*	1	2355	288	0.
1	0515	64	243.	*	1	1130	139	9.	*	1	1745	214	1.	*	2	0000	289	0.
1	0520	65	232.	*	1	1135	140	9.	*	1	1750	215	1.	*	2	0005	290	0.
1	0525	66	222.	*	1	1140	141	9.	*	1	1755	216	1.	*	2	0010	291	0.
1	0530	67	212.	*	1	1145	142	9.	*	1	1800	217	1.	*	2	0015	292	0.
1	0535	68	204.	*	1	1150	143	9.	*	1	1805	218	1.	*	2	0020	293	0.
1	0540	69	196.	*	1	1155	144	9.	*	1	1810	219	1.	*	2	0025	294	0.
1	0545	70	187.	*	1	1200	145	9.	*	1	1815	220	1.	*	2	0030	295	0.
1	0550	71	177.	*	1	1205	146	8.	*	1	1820	221	1.	*	2	0035	296	0.
1	0555	72	167.	*	1	1210	147	8.	*	1	1825	222	1.	*	2	0040	297	0.
1	0600	73	155.	*	1	1215	148	8.	*	1	1830	223	1.	*	2	0045	298	0.
1	0605	74	142.	*	1	1220	149	8.	*	1	1835	224	1.	*	2	0050	299	0.
1	0610	75	118.	*	1	1225	150	8.	*	1	1840	225	1.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
329.	4.75		86.	24.	23.	23.
		(INCHES)	1.122	1.247	1.247	1.247
		(AC-FT)	43.	48.	48.	48.

CUMULATIVE AREA = .71 SQ MI

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116 KK     *    Develo  *     pe rainfall for phase 2 area
           *            *
           **************
                          6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
                          THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
                         L =  .072  Kb = .064  Adj. Slope =   9.9

126 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

              SUBBASIN RUNOFF DATA

120 BA          SUBBASIN CHARACTERISTICS
                      TAREA        .04  SUBBASIN AREA

                PRECIPITATION DATA

121 PB                STORM       2.96  BASIN TOTAL PRECIPITATION

 11 PI            INCREMENTAL PRECIPITATION PATTERN
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00       .00       .01       .01       .01       .01       .01       .01       .03
                      .03       .03       .05       .05       .05       .15       .15       .15       .03       .03
                      .03       .01       .01       .01       .01       .01       .01       .00       .00       .00
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00

122 LG          GREEN AND AMPT LOSS RATE
                      STRTL        .43  STARTING LOSS
                        DTH        .25  MOISTURE DEFICIT
                       PSIF       3.50  WETTING FRONT SUCTION
                      XKSAT        .51  HYDRAULIC CONDUCTIVITY
                      RTIMP        .00  PERCENT IMPERVIOUS AREA

123 UC          CLARK UNITGRAPH
                         TC        .60  TIME OF CONCENTRATION
                          R        .49  STORAGE COEFFICIENT

124 UA          ACCUMULATED-AREA VS. TIME,  11 ORDINATES
                        .0       5.0      16.0      30.0      65.0      77.0      84.0      90.0      94.0      97.0
                     100.0

                                                   ***

                                                UNIT HYDROGRAPH PARAMETERS
                                          CLARK   TC=   .60 HR,       R=   .49 HR
                                         SNYDER   TP=   .35 HR,      CP=   .43

                                                UNIT HYDROGRAPH
                                           34 END-OF-PERIOD ORDINATES
                2.        9.       23.       33.       34.       32.       30.       26.       23.       19.
               16.       13.       11.       10.        8.        7.        6.        5.        4.        3.
                3.        2.        2.        2.        1.        1.        1.        1.        1.        1.
                1.        0.        0.        0.
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HYDROGRAPH AT STATION Develo

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1		0000	1	.00	.00	.00	0.	1		1230	151	.00	.00	.00	0.
1		0005	2	.01	.01	.00	0.	1		1235	152	.00	.00	.00	0.
1		0010	3	.01	.01	.00	0.	1		1240	153	.00	.00	.00	0.
1		0015	4	.01	.01	.00	0.	1		1245	154	.00	.00	.00	0.
1		0020	5	.01	.01	.00	0.	1		1250	155	.00	.00	.00	0.
1		0025	6	.01	.01	.00	0.	1		1255	156	.00	.00	.00	0.
1		0030	7	.01	.01	.00	0.	1		1300	157	.00	.00	.00	0.
1		0035	8	.01	.01	.00	0.	1		1305	158	.00	.00	.00	0.
1		0040	9	.01	.01	.00	0.	1		1310	159	.00	.00	.00	0.
1		0045	10	.01	.01	.00	0.	1		1315	160	.00	.00	.00	0.
1		0050	11	.01	.01	.00	0.	1		1320	161	.00	.00	.00	0.
1		0055	12	.01	.01	.00	0.	1		1325	162	.00	.00	.00	0.
1		0100	13	.01	.01	.00	0.	1		1330	163	.00	.00	.00	0.
1		0105	14	.01	.01	.00	0.	1		1335	164	.00	.00	.00	0.
1		0110	15	.01	.01	.00	0.	1		1340	165	.00	.00	.00	0.
1		0115	16	.01	.01	.00	0.	1		1345	166	.00	.00	.00	0.
1		0120	17	.01	.01	.00	0.	1		1350	167	.00	.00	.00	0.
1		0125	18	.01	.01	.00	0.	1		1355	168	.00	.00	.00	0.
1		0130	19	.01	.01	.00	0.	1		1400	169	.00	.00	.00	0.
1		0135	20	.01	.01	.00	0.	1		1405	170	.00	.00	.00	0.
1		0140	21	.01	.01	.00	0.	1		1410	171	.00	.00	.00	0.
1		0145	22	.01	.01	.00	0.	1		1415	172	.00	.00	.00	0.
1		0150	23	.01	.01	.00	0.	1		1420	173	.00	.00	.00	0.
1		0155	24	.01	.01	.00	0.	1		1425	174	.00	.00	.00	0.
1		0200	25	.01	.01	.00	0.	1		1430	175	.00	.00	.00	0.
1		0205	26	.01	.01	.00	0.	1		1435	176	.00	.00	.00	0.
1		0210	27	.01	.01	.00	0.	1		1440	177	.00	.00	.00	0.
1		0215	28	.01	.01	.00	0.	1		1445	178	.00	.00	.00	0.
1		0220	29	.01	.01	.00	0.	1		1450	179	.00	.00	.00	0.
1		0225	30	.01	.01	.00	0.	1		1455	180	.00	.00	.00	0.
1		0230	31	.01	.01	.00	0.	1		1500	181	.00	.00	.00	0.
1		0235	32	.01	.01	.00	0.	1		1505	182	.00	.00	.00	0.
1		0240	33	.01	.01	.00	0.	1		1510	183	.00	.00	.00	0.
1		0245	34	.01	.01	.00	0.	1		1515	184	.00	.00	.00	0.
1		0250	35	.02	.02	.00	0.	1		1520	185	.00	.00	.00	0.
1		0255	36	.02	.02	.00	0.	1		1525	186	.00	.00	.00	0.
1		0300	37	.02	.02	.00	0.	1		1530	187	.00	.00	.00	0.
1		0305	38	.02	.02	.00	0.	1		1535	188	.00	.00	.00	0.
1		0310	39	.02	.02	.00	0.	1		1540	189	.00	.00	.00	0.
1		0315	40	.02	.02	.00	0.	1		1545	190	.00	.00	.00	0.
1		0320	41	.08	.08	.00	0.	1		1550	191	.00	.00	.00	0.
1		0325	42	.08	.08	.00	0.	1		1555	192	.00	.00	.00	0.
1		0330	43	.08	.08	.00	0.	1		1600	193	.00	.00	.00	0.
1		0335	44	.16	.16	.00	0.	1		1605	194	.00	.00	.00	0.
1		0340	45	.16	.13	.03	0.	1		1610	195	.00	.00	.00	0.
1		0345	46	.16	.11	.05	0.	1		1615	196	.00	.00	.00	0.
1		0350	47	.45	.10	.35	2.	1		1620	197	.00	.00	.00	0.
1		0355	48	.45	.09	.36	6.	1		1625	198	.00	.00	.00	0.
1		0400	49	.45	.09	.36	15.	1		1630	199	.00	.00	.00	0.

1	0405	50	.08	.08	.00	26.	*	1	1635	200	.00	.00	.00	0.
1	0410	51	.08	.08	.00	35.	*	1	1640	201	.00	.00	.00	0.
1	0415	52	.08	.08	.00	38.	*	1	1645	202	.00	.00	.00	0.
1	0420	53	.02	.02	.00	36.	*	1	1650	203	.00	.00	.00	0.
1	0425	54	.02	.02	.00	33.	*	1	1655	204	.00	.00	.00	0.
1	0430	55	.02	.02	.00	30.	*	1	1700	205	.00	.00	.00	0.
1	0435	56	.02	.02	.00	25.	*	1	1705	206	.00	.00	.00	0.
1	0440	57	.02	.02	.00	22.	*	1	1710	207	.00	.00	.00	0.
1	0445	58	.02	.02	.00	18.	*	1	1715	208	.00	.00	.00	0.
1	0450	59	.01	.01	.00	15.	*	1	1720	209	.00	.00	.00	0.
1	0455	60	.01	.01	.00	13.	*	1	1725	210	.00	.00	.00	0.
1	0500	61	.01	.01	.00	11.	*	1	1730	211	.00	.00	.00	0.
1	0505	62	.01	.01	.00	9.	*	1	1735	212	.00	.00	.00	0.
1	0510	63	.01	.01	.00	8.	*	1	1740	213	.00	.00	.00	0.
1	0515	64	.01	.01	.00	6.	*	1	1745	214	.00	.00	.00	0.
1	0520	65	.01	.01	.00	5.	*	1	1750	215	.00	.00	.00	0.
1	0525	66	.01	.01	.00	5.	*	1	1755	216	.00	.00	.00	0.
1	0530	67	.01	.01	.00	4.	*	1	1800	217	.00	.00	.00	0.
1	0535	68	.01	.01	.00	3.	*	1	1805	218	.00	.00	.00	0.
1	0540	69	.01	.01	.00	3.	*	1	1810	219	.00	.00	.00	0.
1	0545	70	.01	.01	.00	2.	*	1	1815	220	.00	.00	.00	0.
1	0550	71	.01	.01	.00	2.	*	1	1820	221	.00	.00	.00	0.
1	0555	72	.01	.01	.00	2.	*	1	1825	222	.00	.00	.00	0.
1	0600	73	.01	.01	.00	1.	*	1	1830	223	.00	.00	.00	0.
1	0605	74	.00	.00	.00	1.	*	1	1835	224	.00	.00	.00	0.
1	0610	75	.00	.00	.00	1.	*	1	1840	225	.00	.00	.00	0.
1	0615	76	.00	.00	.00	1.	*	1	1845	226	.00	.00	.00	0.
1	0620	77	.00	.00	.00	1.	*	1	1850	227	.00	.00	.00	0.
1	0625	78	.00	.00	.00	1.	*	1	1855	228	.00	.00	.00	0.
1	0630	79	.00	.00	.00	0.	*	1	1900	229	.00	.00	.00	0.
1	0635	80	.00	.00	.00	0.	*	1	1905	230	.00	.00	.00	0.
1	0640	81	.00	.00	.00	0.	*	1	1910	231	.00	.00	.00	0.
1	0645	82	.00	.00	.00	0.	*	1	1915	232	.00	.00	.00	0.
1	0650	83	.00	.00	.00	0.	*	1	1920	233	.00	.00	.00	0.
1	0655	84	.00	.00	.00	0.	*	1	1925	234	.00	.00	.00	0.
1	0700	85	.00	.00	.00	0.	*	1	1930	235	.00	.00	.00	0.
1	0705	86	.00	.00	.00	0.	*	1	1935	236	.00	.00	.00	0.
1	0710	87	.00	.00	.00	0.	*	1	1940	237	.00	.00	.00	0.
1	0715	88	.00	.00	.00	0.	*	1	1945	238	.00	.00	.00	0.
1	0720	89	.00	.00	.00	0.	*	1	1950	239	.00	.00	.00	0.
1	0725	90	.00	.00	.00	0.	*	1	1955	240	.00	.00	.00	0.
1	0730	91	.00	.00	.00	0.	*	1	2000	241	.00	.00	.00	0.
1	0735	92	.00	.00	.00	0.	*	1	2005	242	.00	.00	.00	0.
1	0740	93	.00	.00	.00	0.	*	1	2010	243	.00	.00	.00	0.
1	0745	94	.00	.00	.00	0.	*	1	2015	244	.00	.00	.00	0.
1	0750	95	.00	.00	.00	0.	*	1	2020	245	.00	.00	.00	0.
1	0755	96	.00	.00	.00	0.	*	1	2025	246	.00	.00	.00	0.
1	0800	97	.00	.00	.00	0.	*	1	2030	247	.00	.00	.00	0.
1	0805	98	.00	.00	.00	0.	*	1	2035	248	.00	.00	.00	0.
1	0810	99	.00	.00	.00	0.	*	1	2040	249	.00	.00	.00	0.
1	0815	100	.00	.00	.00	0.	*	1	2045	250	.00	.00	.00	0.
1	0820	101	.00	.00	.00	0.	*	1	2050	251	.00	.00	.00	0.
1	0825	102	.00	.00	.00	0.	*	1	2055	252	.00	.00	.00	0.
1	0830	103	.00	.00	.00	0.	*	1	2100	253	.00	.00	.00	0.
1	0835	104	.00	.00	.00	0.	*	1	2105	254	.00	.00	.00	0.
1	0840	105	.00	.00	.00	0.	*	1	2110	255	.00	.00	.00	0.
1	0845	106	.00	.00	.00	0.	*	1	2115	256	.00	.00	.00	0.
1	0850	107	.00	.00	.00	0.	*	1	2120	257	.00	.00	.00	0.

1	0855	108	.00	.00	.00	0.	*	1	2125	258	.00	.00	.00	0.
1	0900	109	.00	.00	.00	0.	*	1	2130	259	.00	.00	.00	0.
1	0905	110	.00	.00	.00	0.	*	1	2135	260	.00	.00	.00	0.
1	0910	111	.00	.00	.00	0.	*	1	2140	261	.00	.00	.00	0.
1	0915	112	.00	.00	.00	0.	*	1	2145	262	.00	.00	.00	0.
1	0920	113	.00	.00	.00	0.	*	1	2150	263	.00	.00	.00	0.
1	0925	114	.00	.00	.00	0.	*	1	2155	264	.00	.00	.00	0.
1	0930	115	.00	.00	.00	0.	*	1	2200	265	.00	.00	.00	0.
1	0935	116	.00	.00	.00	0.	*	1	2205	266	.00	.00	.00	0.
1	0940	117	.00	.00	.00	0.	*	1	2210	267	.00	.00	.00	0.
1	0945	118	.00	.00	.00	0.	*	1	2215	268	.00	.00	.00	0.
1	0950	119	.00	.00	.00	0.	*	1	2220	269	.00	.00	.00	0.
1	0955	120	.00	.00	.00	0.	*	1	2225	270	.00	.00	.00	0.
1	1000	121	.00	.00	.00	0.	*	1	2230	271	.00	.00	.00	0.
1	1005	122	.00	.00	.00	0.	*	1	2235	272	.00	.00	.00	0.
1	1010	123	.00	.00	.00	0.	*	1	2240	273	.00	.00	.00	0.
1	1015	124	.00	.00	.00	0.	*	1	2245	274	.00	.00	.00	0.
1	1020	125	.00	.00	.00	0.	*	1	2250	275	.00	.00	.00	0.
1	1025	126	.00	.00	.00	0.	*	1	2255	276	.00	.00	.00	0.
1	1030	127	.00	.00	.00	0.	*	1	2300	277	.00	.00	.00	0.
1	1035	128	.00	.00	.00	0.	*	1	2305	278	.00	.00	.00	0.
1	1040	129	.00	.00	.00	0.	*	1	2310	279	.00	.00	.00	0.
1	1045	130	.00	.00	.00	0.	*	1	2315	280	.00	.00	.00	0.
1	1050	131	.00	.00	.00	0.	*	1	2320	281	.00	.00	.00	0.
1	1055	132	.00	.00	.00	0.	*	1	2325	282	.00	.00	.00	0.
1	1100	133	.00	.00	.00	0.	*	1	2330	283	.00	.00	.00	0.
1	1105	134	.00	.00	.00	0.	*	1	2335	284	.00	.00	.00	0.
1	1110	135	.00	.00	.00	0.	*	1	2340	285	.00	.00	.00	0.
1	1115	136	.00	.00	.00	0.	*	1	2345	286	.00	.00	.00	0.
1	1120	137	.00	.00	.00	0.	*	1	2350	287	.00	.00	.00	0.
1	1125	138	.00	.00	.00	0.	*	1	2355	288	.00	.00	.00	0.
1	1130	139	.00	.00	.00	0.	*	2	0000	289	.00	.00	.00	0.
1	1135	140	.00	.00	.00	0.	*	2	0005	290	.00	.00	.00	0.
1	1140	141	.00	.00	.00	0.	*	2	0010	291	.00	.00	.00	0.
1	1145	142	.00	.00	.00	0.	*	2	0015	292	.00	.00	.00	0.
1	1150	143	.00	.00	.00	0.	*	2	0020	293	.00	.00	.00	0.
1	1155	144	.00	.00	.00	0.	*	2	0025	294	.00	.00	.00	0.
1	1200	145	.00	.00	.00	0.	*	2	0030	295	.00	.00	.00	0.
1	1205	146	.00	.00	.00	0.	*	2	0035	296	.00	.00	.00	0.
1	1210	147	.00	.00	.00	0.	*	2	0040	297	.00	.00	.00	0.
1	1215	148	.00	.00	.00	0.	*	2	0045	298	.00	.00	.00	0.
1	1220	149	.00	.00	.00	0.	*	2	0050	299	.00	.00	.00	0.
1	1225	150	.00	.00	.00	0.	*	2	0055	300	.00	.00	.00	0.
							*							

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TOTAL RAINFALL = 2.96, TOTAL LOSS = 1.81, TOTAL EXCESS = 1.15

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
38.	4.25		5.	1.	1.	1.
		(INCHES)	1.141	1.141	1.141	1.141
		(AC-FT)	3.	3.	3.	3.

CUMULATIVE AREA = .04 SQ MI

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*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

          **************
          *            *
127 KK    *   Conflu   *     ence g1-g4 with phase 2
          *            *
          **************

129 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

128 HC          HYDROGRAPH COMBINATION
                      ICOMP          2  NUMBER OF HYDROGRAPHS TO COMBINE

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                                        HYDROGRAPH AT STATION   Conflu
                                            SUM OF  2 HYDROGRAPHS

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	85.	1		1230	151	8.	1		1845	226	0.
1		0005	2	0.	1		0620	77	61.	1		1235	152	8.	1		1850	227	0.
1		0010	3	0.	1		0625	78	49.	1		1240	153	8.	1		1855	228	0.
1		0015	4	0.	1		0630	79	42.	1		1245	154	8.	1		1900	229	0.
1		0020	5	0.	1		0635	80	37.	1		1250	155	7.	1		1905	230	0.
1		0025	6	0.	1		0640	81	34.	1		1255	156	7.	1		1910	231	0.
1		0030	7	0.	1		0645	82	32.	1		1300	157	7.	1		1915	232	0.
1		0035	8	0.	1		0650	83	30.	1		1305	158	7.	1		1920	233	0.
1		0040	9	0.	1		0655	84	28.	1		1310	159	7.	1		1925	234	0.
1		0045	10	0.	1		0700	85	26.	1		1315	160	7.	1		1930	235	0.
1		0050	11	0.	1		0705	86	24.	1		1320	161	7.	1		1935	236	0.
1		0055	12	1.	1		0710	87	23.	1		1325	162	7.	1		1940	237	0.
1		0100	13	1.	1		0715	88	22.	1		1330	163	7.	1		1945	238	0.
1		0105	14	1.	1		0720	89	21.	1		1335	164	6.	1		1950	239	0.
1		0110	15	1.	1		0725	90	20.	1		1340	165	6.	1		1955	240	0.
1		0115	16	1.	1		0730	91	20.	1		1345	166	6.	1		2000	241	0.
1		0120	17	1.	1		0735	92	19.	1		1350	167	6.	1		2005	242	0.
1		0125	18	2.	1		0740	93	19.	1		1355	168	6.	1		2010	243	0.
1		0130	19	2.	1		0745	94	18.	1		1400	169	6.	1		2015	244	0.
1		0135	20	2.	1		0750	95	17.	1		1405	170	6.	1		2020	245	0.
1		0140	21	2.	1		0755	96	16.	1		1410	171	6.	1		2025	246	0.
1		0145	22	2.	1		0800	97	16.	1		1415	172	6.	1		2030	247	0.
1		0150	23	2.	1		0805	98	15.	1		1420	173	6.	1		2035	248	0.
1		0155	24	2.	1		0810	99	14.	1		1425	174	5.	1		2040	249	0.
1		0200	25	2.	1		0815	100	14.	1		1430	175	5.	1		2045	250	0.
1		0205	26	2.	1		0820	101	14.	1		1435	176	5.	1		2050	251	0.
1		0210	27	3.	1		0825	102	13.	1		1440	177	5.	1		2055	252	0.

1	0215	28	3.	*	1	0830	103	13.	*	1	1445	178	5.	*	1	2100	253	0.
1	0220	29	3.	*	1	0835	104	13.	*	1	1450	179	5.	*	1	2105	254	0.
1	0225	30	3.	*	1	0840	105	13.	*	1	1455	180	5.	*	1	2110	255	0.
1	0230	31	3.	*	1	0845	106	13.	*	1	1500	181	5.	*	1	2115	256	0.
1	0235	32	3.	*	1	0850	107	12.	*	1	1505	182	5.	*	1	2120	257	0.
1	0240	33	3.	*	1	0855	108	12.	*	1	1510	183	5.	*	1	2125	258	0.
1	0245	34	3.	*	1	0900	109	12.	*	1	1515	184	4.	*	1	2130	259	0.
1	0250	35	3.	*	1	0905	110	12.	*	1	1520	185	4.	*	1	2135	260	0.
1	0255	36	3.	*	1	0910	111	12.	*	1	1525	186	4.	*	1	2140	261	0.
1	0300	37	3.	*	1	0915	112	12.	*	1	1530	187	4.	*	1	2145	262	0.
1	0305	38	3.	*	1	0920	113	12.	*	1	1535	188	4.	*	1	2150	263	0.
1	0310	39	3.	*	1	0925	114	12.	*	1	1540	189	4.	*	1	2155	264	0.
1	.0315	40	4.	*	1	0930	115	12.	*	1	1545	190	4.	*	1	2200	265	0.
1	0320	41	4.	*	1	0935	116	11.	*	1	1550	191	4.	*	1	2205	266	0.
1	0325	42	4.	*	1	0940	117	11.	*	1	1555	192	4.	*	1	2210	267	0.
1	0330	43	4.	*	1	0945	118	11.	*	1	1600	193	3.	*	1	2215	268	0.
1	0335	44	4.	*	1	0950	119	11.	*	1	1605	194	3.	*	1	2220	269	0.
1	0340	45	5.	*	1	0955	120	11.	*	1	1610	195	3.	*	1	2225	270	0.
1	0345	46	6.	*	1	1000	121	11.	*	1	1615	196	3.	*	1	2230	271	0.
1	0350	47	9.	*	1	1005	122	11.	*	1	1620	197	3.	*	1	2235	272	0.
1	0355	48	15.	*	1	1010	123	11.	*	1	1625	198	2.	*	1	2240	273	0.
1	0400	49	32.	*	1	1015	124	11.	*	1	1630	199	2.	*	1	2245	274	0.
1	0405	50	60.	*	1	1020	125	11.	*	1	1635	200	2.	*	1	2250	275	0.
1	0410	51	102.	*	1	1025	126	10.	*	1	1640	201	2.	*	1	2255	276	0.
1	0415	52	140.	*	1	1030	127	10.	*	1	1645	202	2.	*	1	2300	277	0.
1	0420	53	164.	*	1	1035	128	10.	*	1	1650	203	2.	*	1	2305	278	0.
1	0425	54	177.	*	1	1040	129	10.	*	1	1655	204	2.	*	1	2310	279	0.
1	0430	55	191.	*	1	1045	130	10.	*	1	1700	205	2.	*	1	2315	280	0.
1	0435	56	288.	*	1	1050	131	10.	*	1	1705	206	2.	*	1	2320	281	0.
1	0440	57	342.	*	1	1055	132	10.	*	1	1710	207	1.	*	1	2325	282	0.
1	0445	58	348.	*	1	1100	133	10.	*	1	1715	208	1.	*	1	2330	283	0.
1	0450	59	335.	*	1	1105	134	10.	*	1	1720	209	1.	*	1	2335	284	0.
1	0455	60	319.	*	1	1110	135	9.	*	1	1725	210	1.	*	1	2340	285	0.
1	0500	61	301.	*	1	1115	136	9.	*	1	1730	211	1.	*	1	2345	286	0.
1	0505	62	285.	*	1	1120	137	9.	*	1	1735	212	1.	*	1	2350	287	0.
1	0510	63	269.	*	1	1125	138	9.	*	1	1740	213	1.	*	1	2355	288	0.
1	0515	64	249.	*	1	1130	139	9.	*	1	1745	214	1.	*	2	0000	289	0.
1	0520	65	237.	*	1	1135	140	9.	*	1	1750	215	1.	*	2	0005	290	0.
1	0525	66	226.	*	1	1140	141	9.	*	1	1755	216	1.	*	2	0010	291	0.
1	0530	67	216.	*	1	1145	142	9.	*	1	1800	217	1.	*	2	0015	292	0.
1	0535	68	207.	*	1	1150	143	9.	*	1	1805	218	1.	*	2	0020	293	0.
1	0540	69	199.	*	1	1155	144	9.	*	1	1810	219	1.	*	2	0025	294	0.
1	0545	70	190.	*	1	1200	145	9.	*	1	1815	220	1.	*	2	0030	295	0.
1	0550	71	179.	*	1	1205	146	8.	*	1	1820	221	1.	*	2	0035	296	0.
1	0555	72	168.	*	1	1210	147	8.	*	1	1825	222	1.	*	2	0040	297	0.
1	0600	73	157.	*	1	1215	148	8.	*	1	1830	223	1.	*	2	0045	298	0.
1	0605	74	143.	*	1	1220	149	8.	*	1	1835	224	1.	*	2	0050	299	0.
1	0610	75	118.	*	1	1225	150	8.	*	1	1840	225	1.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
348.	4.75		92.	25.	24.	24.
		(INCHES)	1.122	1.241	1.241	1.241
		(AC-FT)	45.	50.	50.	50.

CUMULATIVE AREA = .76 SQ MI

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          **************
          *            *
130 KK    *   Route    *     water through existing topography in Phase 2 and out culverts
          *            *
          **************

136 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

             HYDROGRAPH ROUTING DATA

131 RS          STORAGE ROUTING
                      NSTPS          1  NUMBER OF SUBREACHES
                       ITYP       ELEV  TYPE OF INITIAL CONDITION
                     RSVRIC     974.00  INITIAL CONDITION
                          X        .00 WORKING R AND D COEFFICIENT

132 SV            STORAGE        .0      6.1     12.2     20.9     32.3     46.8     65.2     86.9    111.8

133 SE          ELEVATION    974.00   977.00   978.00   979.00   980.00   981.00   982.00   983.00   984.00

134 SQ          DISCHARGE        0.       0.      15.      41.      90.     151.     220.     287.     345.

135 SE          ELEVATION    974.00   977.00   978.00   979.00   980.00   981.00   982.00   983.00   984.00
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COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	6.12	12.21	20.88	32.25	46.84	65.17	86.92	111.77
OUTFLOW	.00	.00	14.90	41.02	90.10	151.37	220.14	286.54	345.40
ELEVATION	974.00	977.00	978.00	979.00	980.00	981.00	982.00	983.00	984.00

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HYDROGRAPH AT STATION Route

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DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	974.0	1		0820	101	55.	24.2	979.3	1		1640	201	12.	11.1	977.8
1		0005	2	0.	.0	974.0	1		0825	102	54.	23.9	979.3	1		1645	202	12.	11.0	977.8
1		0010	3	0.	.0	974.0	1		0830	103	53.	23.7	979.2	1		1650	203	12.	11.0	977.8
1		0015	4	0.	.0	974.0	1		0835	104	52.	23.4	979.2	1		1655	204	12.	10.9	977.8
1		0020	5	0.	.0	974.0	1		0840	105	51.	23.1	979.2	1		1700	205	12.	10.8	977.8
1		0025	6	0.	.0	974.0	1		0845	106	50.	22.9	979.2	1		1705	206	11.	10.8	977.8

1	0030	7	0.	.0	974.0	*	1	0850	107	48.	22.6	979.2	*	1	1710	207	11.	10.7	977.8
1	0035	8	0.	.0	974.0	*	1	0855	108	47.	22.4	979.1	*	1	1715	208	11.	10.6	977.7
1	0040	9	0.	.0	974.0	*	1	0900	109	46.	22.1	979.1	*	1	1720	209	11.	10.6	977.7
1	0045	10	0.	.0	974.0	*	1	0905	110	45.	21.9	979.1	*	1	1725	210	11.	10.5	977.7
1	0050	11	0.	.0	974.0	*	1	0910	111	44.	21.7	979.1	*	1	1730	211	11.	10.4	977.7
1	0055	12	0.	.0	974.0	*	1	0915	112	43.	21.4	979.0	*	1	1735	212	10.	10.4	977.7
1	0100	13	0.	.0	974.0	*	1	0920	113	43.	21.2	979.0	*	1	1740	213	10.	10.3	977.7
1	0105	14	0.	.0	974.0	*	1	0925	114	42.	21.0	979.0	*	1	1745	214	10.	10.2	977.7
1	0110	15	0.	.0	974.0	*	1	0930	115	41.	20.8	979.0	*	1	1750	215	10.	10.2	977.7
1	0115	16	0.	.0	974.0	*	1	0935	116	40.	20.6	979.0	*	1	1755	216	10.	10.1	977.7
1	0120	17	0.	.0	974.0	*	1	0940	117	40.	20.4	978.9	*	1	1800	217	10.	10.1	977.6
1	0125	18	0.	.1	974.0	*	1	0945	118	39.	20.2	978.9	*	1	1805	218	9.	10.0	977.6
1	0130	19	0.	.1	974.0	*	1	0950	119	38.	20.0	978.9	*	1	1810	219	9.	9.9	977.6
1	0135	20	0.	.1	974.0	*	1	0955	120	38.	19.9	978.9	*	1	1815	220	9.	9.9	977.6
1	0140	21	0.	.1	974.0	*	1	1000	121	37.	19.7	978.9	*	1	1820	221	9.	9.8	977.6
1	0145	22	0.	.1	974.1	*	1	1005	122	37.	19.5	978.8	*	1	1825	222	9.	9.8	977.6
1	0150	23	0.	.1	974.1	*	1	1010	123	36.	19.3	978.8	*	1	1830	223	9.	9.7	977.6
1	0155	24	0.	.1	974.1	*	1	1015	124	36.	19.1	978.8	*	1	1835	224	9.	9.6	977.6
1	0200	25	0.	.2	974.1	*	1	1020	125	35.	19.0	978.8	*	1	1840	225	8.	9.6	977.6
1	0205	26	0.	.2	974.1	*	1	1025	126	35.	18.8	978.8	*	1	1845	226	8.	9.5	977.6
1	0210	27	0.	.2	974.1	*	1	1030	127	34.	18.6	978.7	*	1	1850	227	8.	9.5	977.6
1	0215	28	0.	.2	974.1	*	1	1035	128	34.	18.5	978.7	*	1	1855	228	8.	9.4	977.5
1	0220	29	0.	.2	974.1	*	1	1040	129	33.	18.3	978.7	*	1	1900	229	8.	9.4	977.5
1	0225	30	0.	.2	974.1	*	1	1045	130	33.	18.1	978.7	*	1	1905	230	8.	9.3	977.5
1	0230	31	0.	.3	974.1	*	1	1050	131	32.	18.0	978.7	*	1	1910	231	8.	9.3	977.5
1	0235	32	0.	.3	974.1	*	1	1055	132	32.	17.8	978.6	*	1	1915	232	8.	9.2	977.5
1	0240	33	0.	.3	974.1	*	1	1100	133	31.	17.7	978.6	*	1	1920	233	7.	9.2	977.5
1	0245	34	0.	.3	974.2	*	1	1105	134	31.	17.5	978.6	*	1	1925	234	7.	9.1	977.5
1	0250	35	0.	.3	974.2	*	1	1110	135	31.	17.4	978.6	*	1	1930	235	7.	9.1	977.5
1	0255	36	0.	.4	974.2	*	1	1115	136	30.	17.3	978.6	*	1	1935	236	7.	9.0	977.5
1	0300	37	0.	.4	974.2	*	1	1120	137	30.	17.1	978.6	*	1	1940	237	7.	9.0	977.5
1	0305	38	0.	.4	974.2	*	1	1125	138	29.	17.0	978.5	*	1	1945	238	7.	8.9	977.5
1	0310	39	0.	.4	974.2	*	1	1130	139	29.	16.8	978.5	*	1	1950	239	7.	8.9	977.5
1	0315	40	0.	.5	974.2	*	1	1135	140	28.	16.7	978.5	*	1	1955	240	7.	8.8	977.4
1	0320	41	0.	.5	974.2	*	1	1140	141	28.	16.6	978.5	*	1	2000	241	7.	8.8	977.4
1	0325	42	0.	.5	974.2	*	1	1145	142	28.	16.4	978.5	*	1	2005	242	6.	8.8	977.4
1	0330	43	0.	.5	974.3	*	1	1150	143	27.	16.3	978.5	*	1	2010	243	6.	8.7	977.4
1	0335	44	0.	.6	974.3	*	1	1155	144	27.	16.2	978.5	*	1	2015	244	6.	8.7	977.4
1	0340	45	0.	.6	974.3	*	1	1200	145	26.	16.1	978.4	*	1	2020	245	6.	8.6	977.4
1	0345	46	0.	.6	974.3	*	1	1205	146	26.	15.9	978.4	*	1	2025	246	6.	8.6	977.4
1	0350	47	0.	.7	974.3	*	1	1210	147	26.	15.8	978.4	*	1	2030	247	6.	8.6	977.4
1	0355	48	0.	.8	974.4	*	1	1215	148	25.	15.7	978.4	*	1	2035	248	6.	8.5	977.4
1	0400	49	0.	.9	974.5	*	1	1220	149	25.	15.6	978.4	*	1	2040	249	6.	8.5	977.4
1	0405	50	0.	1.2	974.6	*	1	1225	150	25.	15.5	978.4	*	1	2045	250	6.	8.4	977.4
1	0410	51	0.	1.8	974.9	*	1	1230	151	24.	15.3	978.4	*	1	2050	251	6.	8.4	977.4
1	0415	52	0.	2.6	975.3	*	1	1235	152	24.	15.2	978.3	*	1	2055	252	5.	8.4	977.4
1	0420	53	0.	3.7	975.8	*	1	1240	153	24.	15.1	978.3	*	1	2100	253	5.	8.3	977.4
1	0425	54	0.	4.9	976.4	*	1	1245	154	23.	15.0	978.3	*	1	2105	254	5.	8.3	977.4
1	0430	55	0.	6.1	977.0	*	1	1250	155	23.	14.9	978.3	*	1	2110	255	5.	8.3	977.4
1	0435	56	4.	7.8	977.3	*	1	1255	156	23.	14.8	978.3	*	1	2115	256	5.	8.2	977.3
1	0440	57	9.	9.9	977.6	*	1	1300	157	22.	14.7	978.3	*	1	2120	257	5.	8.2	977.3
1	0445	58	15.	12.2	978.0	*	1	1305	158	22.	14.6	978.3	*	1	2125	258	5.	8.1	977.3
1	0450	59	21.	14.4	978.3	*	1	1310	159	22.	14.5	978.3	*	1	2130	259	5.	8.1	977.3
1	0455	60	28.	16.5	978.5	*	1	1315	160	21.	14.4	978.3	*	1	2135	260	5.	8.1	977.3
1	0500	61	34.	18.4	978.7	*	1	1320	161	21.	14.3	978.2	*	1	2140	261	5.	8.1	977.3
1	0505	62	39.	20.2	978.9	*	1	1325	162	21.	14.2	978.2	*	1	2145	262	5.	8.0	977.3
1	0510	63	45.	21.8	979.1	*	1	1330	163	21.	14.1	978.2	*	1	2150	263	5.	8.0	977.3
1	0515	64	51.	23.2	979.2	*	1	1335	164	20.	14.0	978.2	*	1	2155	264	4.	8.0	977.3

1	0520	65	57.	24.5	979.3	*	1	1340	165	20.	13.9	978.2	*	1	2200	265	4.	7.9	977.3
1	0525	66	62.	25.7	979.4	*	1	1345	166	20.	13.8	978.2	*	1	2205	266	4.	7.9	977.3
1	0530	67	67.	26.8	979.5	*	1	1350	167	19.	13.7	978.2	*	1	2210	267	4.	7.9	977.3
1	0535	68	71.	27.8	979.6	*	1	1355	168	19.	13.6	978.2	*	1	2215	268	4.	7.8	977.3
1	0540	69	75.	28.7	979.7	*	1	1400	169	19.	13.5	978.2	*	1	2220	269	4.	7.8	977.3
1	0545	70	78.	29.5	979.8	*	1	1405	170	19.	13.4	978.1	*	1	2225	270	4.	7.8	977.3
1	0550	71	81.	30.2	979.8	*	1	1410	171	18.	13.4	978.1	*	1	2230	271	4.	7.8	977.3
1	0555	72	84.	30.9	979.9	*	1	1415	172	18.	13.3	978.1	*	1	2235	272	4.	7.7	977.3
1	0600	73	86.	31.4	979.9	*	1	1420	173	18.	13.2	978.1	*	1	2240	273	4.	7.7	977.3
1	0605	74	88.	31.8	980.0	*	1	1425	174	18.	13.1	978.1	*	1	2245	274	4.	7.7	977.3
1	0610	75	89.	32.1	980.0	*	1	1430	175	17.	13.0	978.1	*	1	2250	275	4.	7.6	977.3
1	0615	76	90.	32.2	980.0	*	1	1435	176	17.	12.9	978.1	*	1	2255	276	4.	7.6	977.2
1	0620	77	89.	32.1	980.0	*	1	1440	177	17.	12.9	978.1	*	1	2300	277	4.	7.6	977.2
1	0625	78	88.	31.8	980.0	*	1	1445	178	17.	12.8	978.1	*	1	2305	278	4.	7.6	977.2
1	0630	79	87.	31.5	979.9	*	1	1450	179	16.	12.7	978.1	*	1	2310	279	3.	7.5	977.2
1	0635	80	86.	31.2	979.9	*	1	1455	180	16.	12.6	978.0	*	1	2315	280	3.	7.5	977.2
1	0640	81	84.	30.9	979.9	*	1	1500	181	16.	12.5	978.0	*	1	2320	281	3.	7.5	977.2
1	0645	82	83.	30.5	979.8	*	1	1505	182	16.	12.5	978.0	*	1	2325	282	3.	7.5	977.2
1	0650	83	81.	30.2	979.8	*	1	1510	183	15.	12.4	978.0	*	1	2330	283	3.	7.5	977.2
1	0655	84	80.	29.8	979.8	*	1	1515	184	15.	12.3	978.0	*	1	2335	284	3.	7.4	977.2
1	0700	85	78.	29.5	979.8	*	1	1520	185	15.	12.2	978.0	*	1	2340	285	3.	7.4	977.2
1	0705	86	77.	29.1	979.7	*	1	1525	186	15.	12.2	978.0	*	1	2345	286	3.	7.4	977.2
1	0710	87	75.	28.7	979.7	*	1	1530	187	15.	12.1	978.0	*	1	2350	287	3.	7.4	977.2
1	0715	88	73.	28.4	979.7	*	1	1535	188	14.	12.0	978.0	*	1	2355	288	3.	7.3	977.2
1	0720	89	72.	28.0	979.6	*	1	1540	189	14.	12.0	978.0	*	2	0000	289	3.	7.3	977.2
1	0725	90	70.	27.7	979.6	*	1	1545	190	14.	11.9	977.9	*	2	0005	290	3.	7.3	977.2
1	0730	91	69.	27.3	979.6	*	1	1550	191	14.	11.8	977.9	*	2	0010	291	3.	7.3	977.2
1	0735	92	67.	27.0	979.5	*	1	1555	192	14.	11.7	977.9	*	2	0015	292	3.	7.3	977.2
1	0740	93	66.	26.7	979.5	*	1	1600	193	14.	11.7	977.9	*	2	0020	293	3.	7.3	977.2
1	0745	94	65.	26.4	979.5	*	1	1605	194	13.	11.6	977.9	*	2	0025	294	3.	7.2	977.2
1	0750	95	63.	26.0	979.5	*	1	1610	195	13.	11.5	977.9	*	2	0030	295	3.	7.2	977.2
1	0755	96	62.	25.7	979.4	*	1	1615	196	13.	11.5	977.9	*	2	0035	296	3.	7.2	977.2
1	0800	97	61.	25.4	979.4	*	1	1620	197	13.	11.4	977.9	*	2	0040	297	3.	7.2	977.2
1	0805	98	59.	25.1	979.4	*	1	1625	198	13.	11.3	977.9	*	2	0045	298	3.	7.2	977.2
1	0810	99	58.	24.8	979.3	*	1	1630	199	13.	11.2	977.8	*	2	0050	299	3.	7.1	977.2
1	0815	100	57.	24.5	979.3	*	1	1635	200	12.	11.2	977.8	*	2	0055	300	2.	7.1	977.2
						*							*						

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
90.	6.25		58.	22.	21.	21.
		(INCHES)	.711	1.065	1.065	1.065
		(AC-FT)	29.	43.	43.	43.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
32.	6.25	25.	13.	12.	12.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
979.99	6.25	979.32	977.63	977.49	977.49

CUMULATIVE AREA = .76 SQ MI

RUNOFF SUMMARY
FLOW IN CUBIC FEET PER SECOND
TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD 6-HOUR	24-HOUR	72-HOUR	BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
HYDROGRAPH AT	DEVELO	294.	4.42	56.	14.	14.	.41		
ROUTED TO	Node17	168.	5.00	56.	14.	14.	.41	82.77	5.00
ROUTED TO	Node10	168.	5.00	56.	14.	14.	.41	8.60	5.00
HYDROGRAPH AT	DEVELO	45.	4.17	7.	2.	2.	.04		
ROUTED TO	Node7	33.	4.58	3.	1.	1.	.04		
2 COMBINED AT	Node11	193.	4.58	59.	15.	14.	.45		
ROUTED TO	Node10	188.	4.67	59.	15.	14.	.45	8.77	4.67
HYDROGRAPH AT	DEVELO	12.	4.17	2.	0.	0.	.01		
ROUTED TO	Node8	8.	4.58	1.	0.	0.	.01		
2 COMBINED AT	Node13	193.	4.67	60.	15.	14.	.46		
ROUTED TO	Node10	192.	4.75	60.	15.	14.	.46	8.79	4.75
HYDROGRAPH AT	DEVELO	203.	4.33	36.	9.	9.	.25		
ROUTED TO	Node9	138.	4.75	28.	9.	9.	.25	11.48	4.75
2 COMBINED AT	Node15	329.	4.75	86.	24.	23.	.71		
HYDROGRAPH AT	Develo	38.	4.25	5.	1.	1.	.04		

2 COMBINED AT									
	Conflu	348.	4.75	92.	25.	24.	.76		
ROUTED TO									
	Route	90.	6.25	58.	22.	21.	.76		
								979.99	6.25

*** NORMAL END OF HEC-1 ***

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*                                      *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)  *
*            SEPTEMBER 1990            *
*             VERSION 4.0              *
*                                      *
* RUN DATE  10/16/1997  TIME  09:53:10 *
*                                      *
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*                                      *
*    U.S. ARMY CORPS OF ENGINEERS      *
*    HYDROLOGIC ENGINEERING CENTER     *
*          609 SECOND STREET           *
*       DAVIS, CALIFORNIA 95616        *
*           (916) 756-1104             *
*                                      *
****************************************
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X     X  XXXXXXX   XXXXX          X
X     X  X        X     X        XX
X     X  X        X               X
XXXXXXX  XXXX     X       XXXXX   X
X     X  X        X               X
X     X  X        X     X         X
X     X  XXXXXXX   XXXXX         XXX
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THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

MODEL #3 - Phase 1 Agua Fria @ Flood Elevation = 984.0

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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  1           ID       model #3
  2           IT       5                    300
  3           IO       2

  4           KK  DEVELOP RAINFALL FOR BASIN G1
  5           KM   6-HOUR RAINFALL PATTERN NO. 1.23 WAS USED TO FIND TC & R FOR THIS BASIN
  6           KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .990
  7           KM  L = 1.17  Kb = .050  Adj. Slope =   21.3
  8           BA    .413
  9           PB   1.188
 10           IN      15
 11           PC    .000    .008    .016    .025    .033    .041    .050    .058    .066    .074
 12           PC    .087    .099    .118    .144    .224    .394    .801    .894    .924    .947
 13           PC    .959    .970    .981    .990   1.000
 14           LG    .430    .255   3.500    .515   7.000
 15           UC   1.000    .694
 16           UA       0       5      16      30      65      77      84      90      94      97
 17           UA     100
 18           KO       2

 19           KK  Node17
 20           KM  basin routing through transfer drain culverts
 21           RS       1    STOR       0       0
 22           SV       0     .02     .11      .2    1.79    3.38    7.57   13.81
 23           SE   77.82      78      79      80      81      82      83      84
 24           SL   77.82   15.70      .6      .5
 25           SS   83.80      15       3     1.5
 26           KO       2

 27           KK  Node10
 28           KM  Route water from culverts to middle of subdivision
 29           RS       1    STOR       0       0
 30           RC    .035    .035    .035     650   .0022      15
 31           RX       0      20     120   136.6   146.6   162.2   262.2   282.2
 32           RY      15      11      10    5.85    5.85      10      11      15
 33           KO       2

 34           KK  DEVELOPE RAINFALL FOR SUBBASIN G2
 35           KM   6-HOUR RAINFALL PATTERN NO. 1.23 WAS USED TO FIND TC & R FOR THIS BASIN
 36           KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .990
 37           KM  L =  .41  Kb = .064  Adj. Slope =   48.9
 38           BA    .040
 39           PB   1.188
 40           LG    .430    .255   3.500   0.515  30.000
 41           UC    .796    .881
 42           UA       0       5      16      30      65      77      84      90      94      97
 43           UA     100
 44           KO       2

 45           KK  Node7
 46           KM  Route flow through basin to remove developed area storage
 47           RS       1    STOR       0       0
 48           SV       0    2.13    2.15    2.16    2.17    2.18    2.19    2.20    2.25     2.5
 49           SV    2.75
```

50	SQ	0	0	20	30	40	50	60	70	100	150

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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  51          SQ     200
  52          KO       2

  53          KK  Node11
  54          KM  conflunce g1 and g2
  55          HC       2
  56          KO       2

  57          KK  Node10
  58          KM  Route water from culverts to middle of subdivision
  59          RS       1    STOR       0       0
  60          RC    .035    .035    .035     650   .0022      15
  61          RX       0      20     120   136.6   146.6   162.2   262.2   282.2
  62          RY      15      11      10    5.85    5.85      10      11      15
  63          KO       2

  64          KK  DEVELOPE RAINFALL FOR G3
  65          KM   6-HOUR RAINFALL PATTERN NO. 1.23 WAS USED TO FIND TC & R FOR THIS BASIN
  66          KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .990
  67          KM  L =  .30  Kb = .072  Adj. Slope =   60.9
  68          BA    .010
  69          PB   1.188
  70          LG    .430    .255   3.500    .515  30.000
  71          UC    .642   1.191
  72          UA       0       5      16      30      65      77      84      90      94      97
  73          UA     100
  74          KO       2

  75          KK  Node8
  76          KM  Route area through subdivision to remove retention storage
  77          RS       1    STOR       0       0
  78          SV       0     .58     .60     .61     .62     .63     .64
  79          SQ       0       0      10      20      30      40      50
  80          KO       2

  81          KK  Node13
  82          KM  confluence g1-g2 with g3
  83          KO       2
  84          HC       2
  85          KO       2

  86          KK  Node10
  87          KM  Route water from  middle of subdivision to old mcdowell
  88          RS       1    STOR       0       0
  89          RC    .035    .035    .035     650   .0022      15
  90          RX       0      20     120   136.6   146.6   162.2   262.2   282.2
  91          RY      15      11      10    5.85    5.85      10      11      15
  92          KO       2

  93          KK  DEVELOP RAINFALL FOR SUBBASIN G4
  94          KM   6-HOUR RAINFALL PATTERN NO. 1.23 WAS USED TO FIND TC & R FOR THIS BASIN
  95          KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .990
  96          KM  L =  .98  Kb = .064  Adj. Slope =   26.3
  97          BA    .252
```

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 99           LG    .430    .255   3.500    .515  10.470
100           UC   1.000    .799
101           UA       0       5      16      30      65      77      84      90      94      97
102           UA     100
103           KO       2

104           KK  Node9
105           KM  Route water through detention basin to remove subdivision storage
106           RS       1    STOR       0       0
107           SV       0    7.58    7.60    7.70    7.80
108           SE       0      10      11      12      13
109           SL       0       1      .6      .5
110           SS      10      50     2.7     1.5
111           KO       2

112           KK  Node15
113           KM  confluence g1-g2-g3 with g4
114           HC       2
115           KO       2

116           KK  Develope rainfall for phase 2 area
117           KM   6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
118           KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
119           KM  L =  .072  Kb = .064  Adj. Slope =   9.9
120           BA    .043
121           PB   1.188
122           LG    .430    .255   3.500    .515   0.000
123           UC   1.000   0.938
124           UA       0       5      16      30      65      77      84      90      94      97
125           UA     100
126           KO       2

127           KK  Confluence g1-g4 with phase 2
128           HC       2
129           KO       2

130           KK  Route water through existing topography in Phase 2 and close flapgates on culv
131           RS       1    STOR       0       0
132           SV       0    2.50    6.12   12.21   20.88
133           SE     974     976     977     978     979
134           SQ       0       0       0       0       0
135           SE     974     976     977     978     979
136           KO       2
137           ZZ
```

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****************************************
*                                      *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)  *
*            SEPTEMBER 1990            *
*             VERSION 4.0              *
*                                      *
*  RUN DATE  06/09/1998  TIME  14:12:22 *
*                                      *
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****************************************
*                                      *
*   U.S. ARMY CORPS OF ENGINEERS       *
*   HYDROLOGIC ENGINEERING CENTER      *
*         609 SECOND STREET            *
*      DAVIS, CALIFORNIA 95616         *
*          (916) 756-1104              *
*                                      *
****************************************
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model #3

```
  3 IO        OUTPUT CONTROL VARIABLES
                    IPRNT          2  PRINT CONTROL
                    IPLOT          0  PLOT CONTROL
                    QSCAL         0.  HYDROGRAPH PLOT SCALE

    IT        HYDROGRAPH TIME DATA
                     NMIN          5  MINUTES IN COMPUTATION INTERVAL
                    IDATE      1   0  STARTING DATE
                    ITIME       0000  STARTING TIME
                       NQ        300  NUMBER OF HYDROGRAPH ORDINATES
                   NDDATE      2   0  ENDING DATE
                   NDTIME       0055  ENDING TIME
                    ICENT         19  CENTURY MARK

                COMPUTATION INTERVAL     .08 HOURS
                     TOTAL TIME BASE   24.92 HOURS

        ENGLISH UNITS
            DRAINAGE AREA          SQUARE MILES
            PRECIPITATION DEPTH    INCHES
            LENGTH, ELEVATION      FEET
            FLOW                   CUBIC FEET PER SECOND
            STORAGE VOLUME         ACRE-FEET
            SURFACE AREA           ACRES
            TEMPERATURE            DEGREES FAHRENHEIT
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*** ***

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          **************
          *            *
  4 KK    *   DEVELO   *     P RAINFALL FOR BASIN G1
          *            *
          **************
                     6-HOUR RAINFALL PATTERN NO. 1.23 WAS USED TO FIND TC & R FOR THIS BASIN
                     THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .990
                    L = 1.17  Kb = .050  Adj. Slope =   21.3

 10 IN        TIME DATA FOR INPUT TIME SERIES
                    JXMIN         15  TIME INTERVAL IN MINUTES
```

```
                JXDATE      1    0  STARTING DATE
                JXTIME           0  STARTING TIME

18 KO        OUTPUT CONTROL VARIABLES
                IPRNT           2  PRINT CONTROL
                IPLOT           0  PLOT CONTROL
                QSCAL          0.  HYDROGRAPH PLOT SCALE

           SUBBASIN RUNOFF DATA

 8 BA        SUBBASIN CHARACTERISTICS
                TAREA         .41  SUBBASIN AREA

             PRECIPITATION DATA

 9 PB           STORM        1.19  BASIN TOTAL PRECIPITATION

11 PI          INCREMENTAL PRECIPITATION PATTERN
                .00     .00     .00     .00     .00     .00     .00     .00     .00     .00
                .00     .00     .00     .00     .00     .00     .00     .00     .00     .00
                .00     .00     .00     .00     .00     .00     .00     .00     .00     .00
                .00     .00     .00     .01     .01     .01     .01     .01     .01     .03
                .03     .03     .06     .06     .06     .14     .14     .14     .03     .03
                .03     .01     .01     .01     .01     .01     .01     .00     .00     .00
                .00     .00     .00     .00     .00     .00     .00     .00     .00     .00
                .00     .00

14 LG        GREEN AND AMPT LOSS RATE
                STRTL         .43  STARTING LOSS
                  DTH         .25  MOISTURE DEFICIT
                 PSIF        3.50  WETTING FRONT SUCTION
                XKSAT         .51  HYDRAULIC CONDUCTIVITY
                RTIMP        7.00  PERCENT IMPERVIOUS AREA

15 UC        CLARK UNITGRAPH
                   TC        1.00  TIME OF CONCENTRATION
                    R         .69  STORAGE COEFFICIENT

16 UA        ACCUMULATED-AREA VS. TIME,  11 ORDINATES
                  .0      5.0     16.0     30.0     65.0     77.0     84.0     90.0     94.0     97.0
               100.0

                                          ***

                                   UNIT HYDROGRAPH PARAMETERS
                             CLARK   TC=  1.00 HR,       R=   .69 HR
                            SNYDER   TP=   .54 HR,      CP=   .44

                                   UNIT HYDROGRAPH
                              50 END-OF-PERIOD ORDINATES
          8.      29.      60.     106.     174.     218.     222.     217.     209.     198.
        186.     174.     158.     140.     125.     110.      98.      87.      77.      68.
         61.      54.      48.      42.      37.      33.      29.      26.      23.      21.
         18.      16.      14.      13.      11.      10.       9.       8.       7.       6.
          5.       5.       4.       4.       3.       3.       3.       2.       2.       2.
```

****

HYDROGRAPH AT STATION DEVELO

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1		0000	1	.00	.00	.00	0.	1		1230	151	.00	.00	.00	0.
1		0005	2	.00	.00	.00	0.	1		1235	152	.00	.00	.00	0.
1		0010	3	.00	.00	.00	0.	1		1240	153	.00	.00	.00	0.
1		0015	4	.00	.00	.00	0.	1		1245	154	.00	.00	.00	0.
1		0020	5	.00	.00	.00	0.	1		1250	155	.00	.00	.00	0.
1		0025	6	.00	.00	.00	0.	1		1255	156	.00	.00	.00	0.
1		0030	7	.00	.00	.00	0.	1		1300	157	.00	.00	.00	0.
1		0035	8	.00	.00	.00	0.	1		1305	158	.00	.00	.00	0.
1		0040	9	.00	.00	.00	0.	1		1310	159	.00	.00	.00	0.
1		0045	10	.00	.00	.00	0.	1		1315	160	.00	.00	.00	0.
1		0050	11	.00	.00	.00	0.	1		1320	161	.00	.00	.00	0.
1		0055	12	.00	.00	.00	0.	1		1325	162	.00	.00	.00	0.
1		0100	13	.00	.00	.00	0.	1		1330	163	.00	.00	.00	0.
1		0105	14	.00	.00	.00	0.	1		1335	164	.00	.00	.00	0.
1		0110	15	.00	.00	.00	0.	1		1340	165	.00	.00	.00	0.
1		0115	16	.00	.00	.00	1.	1		1345	166	.00	.00	.00	0.
1		0120	17	.00	.00	.00	1.	1		1350	167	.00	.00	.00	0.
1		0125	18	.00	.00	.00	1.	1		1355	168	.00	.00	.00	0.
1		0130	19	.00	.00	.00	1.	1		1400	169	.00	.00	.00	0.
1		0135	20	.00	.00	.00	1.	1		1405	170	.00	.00	.00	0.
1		0140	21	.00	.00	.00	1.	1		1410	171	.00	.00	.00	0.
1		0145	22	.00	.00	.00	1.	1		1415	172	.00	.00	.00	0.
1		0150	23	.00	.00	.00	1.	1		1420	173	.00	.00	.00	0.
1		0155	24	.00	.00	.00	1.	1		1425	174	.00	.00	.00	0.
1		0200	25	.00	.00	.00	1.	1		1430	175	.00	.00	.00	0.
1		0205	26	.00	.00	.00	1.	1		1435	176	.00	.00	.00	0.
1		0210	27	.00	.00	.00	1.	1		1440	177	.00	.00	.00	0.
1		0215	28	.00	.00	.00	1.	1		1445	178	.00	.00	.00	0.
1		0220	29	.01	.00	.00	1.	1		1450	179	.00	.00	.00	0.
1		0225	30	.01	.00	.00	1.	1		1455	180	.00	.00	.00	0.
1		0230	31	.01	.00	.00	1.	1		1500	181	.00	.00	.00	0.
1		0235	32	.00	.00	.00	1.	1		1505	182	.00	.00	.00	0.
1		0240	33	.00	.00	.00	1.	1		1510	183	.00	.00	.00	0.
1		0245	34	.00	.00	.00	1.	1		1515	184	.00	.00	.00	0.
1		0250	35	.01	.01	.00	1.	1		1520	185	.00	.00	.00	0.
1		0255	36	.01	.01	.00	1.	1		1525	186	.00	.00	.00	0.
1		0300	37	.01	.01	.00	1.	1		1530	187	.00	.00	.00	0.
1		0305	38	.01	.01	.00	1.	1		1535	188	.00	.00	.00	0.
1		0310	39	.01	.01	.00	1.	1		1540	189	.00	.00	.00	0.
1		0315	40	.01	.01	.00	1.	1		1545	190	.00	.00	.00	0.
1		0320	41	.03	.03	.00	1.	1		1550	191	.00	.00	.00	0.
1		0325	42	.03	.03	.00	1.	1		1555	192	.00	.00	.00	0.
1		0330	43	.03	.03	.00	1.	1		1600	193	.00	.00	.00	0.
1		0335	44	.07	.06	.00	2.	1		1605	194	.00	.00	.00	0.
1		0340	45	.07	.06	.00	2.	1		1610	195	.00	.00	.00	0.
1		0345	46	.07	.06	.00	3.	1		1615	196	.00	.00	.00	0.
1		0350	47	.16	.15	.01	3.	1		1620	197	.00	.00	.00	0.
1		0355	48	.16	.15	.01	4.	1		1625	198	.00	.00	.00	0.
1		0400	49	.16	.12	.04	6.	1		1630	199	.00	.00	.00	0.
1		0405	50	.04	.03	.00	8.	1		1635	200	.00	.00	.00	0.
1		0410	51	.04	.03	.00	11.	1		1640	201	.00	.00	.00	0.
1		0415	52	.04	.03	.00	14.	1		1645	202	.00	.00	.00	0.

1	0420	53	.01	.01	.00	17.	*	1	1650	203	.00	.00	.00	0.
1	0425	54	.01	.01	.00	19.	*	1	1655	204	.00	.00	.00	0.
1	0430	55	.01	.01	.00	19.	*	1	1700	205	.00	.00	.00	0.
1	0435	56	.01	.01	.00	18.	*	1	1705	206	.00	.00	.00	0.
1	0440	57	.01	.01	.00	18.	*	1	1710	207	.00	.00	.00	0.
1	0445	58	.01	.01	.00	17.	*	1	1715	208	.00	.00	.00	0.
1	0450	59	.00	.00	.00	16.	*	1	1720	209	.00	.00	.00	0.
1	0455	60	.00	.00	.00	15.	*	1	1725	210	.00	.00	.00	0.
1	0500	61	.00	.00	.00	13.	*	1	1730	211	.00	.00	.00	0.
1	0505	62	.00	.00	.00	12.	*	1	1735	212	.00	.00	.00	0.
1	0510	63	.00	.00	.00	11.	*	1	1740	213	.00	.00	.00	0.
1	0515	64	.00	.00	.00	10.	*	1	1745	214	.00	.00	.00	0.
1	0520	65	.00	.00	.00	9.	*	1	1750	215	.00	.00	.00	0.
1	0525	66	.00	.00	.00	8.	*	1	1755	216	.00	.00	.00	0.
1	0530	67	.00	.00	.00	7.	*	1	1800	217	.00	.00	.00	0.
1	0535	68	.00	.00	.00	7.	*	1	1805	218	.00	.00	.00	0.
1	0540	69	.00	.00	.00	6.	*	1	1810	219	.00	.00	.00	0.
1	0545	70	.00	.00	.00	5.	*	1	1815	220	.00	.00	.00	0.
1	0550	71	.00	.00	.00	5.	*	1	1820	221	.00	.00	.00	0.
1	0555	72	.00	.00	.00	4.	*	1	1825	222	.00	.00	.00	0.
1	0600	73	.00	.00	.00	4.	*	1	1830	223	.00	.00	.00	0.
1	0605	74	.00	.00	.00	4.	*	1	1835	224	.00	.00	.00	0.
1	0610	75	.00	.00	.00	3.	*	1	1840	225	.00	.00	.00	0.
1	0615	76	.00	.00	.00	3.	*	1	1845	226	.00	.00	.00	0.
1	0620	77	.00	.00	.00	3.	*	1	1850	227	.00	.00	.00	0.
1	0625	78	.00	.00	.00	2.	*	1	1855	228	.00	.00	.00	0.
1	0630	79	.00	.00	.00	2.	*	1	1900	229	.00	.00	.00	0.
1	0635	80	.00	.00	.00	2.	*	1	1905	230	.00	.00	.00	0.
1	0640	81	.00	.00	.00	2.	*	1	1910	231	.00	.00	.00	0.
1	0645	82	.00	.00	.00	2.	*	1	1915	232	.00	.00	.00	0.
1	0650	83	.00	.00	.00	1.	*	1	1920	233	.00	.00	.00	0.
1	0655	84	.00	.00	.00	1.	*	1	1925	234	.00	.00	.00	0.
1	0700	85	.00	.00	.00	1.	*	1	1930	235	.00	.00	.00	0.
1	0705	86	.00	.00	.00	1.	*	1	1935	236	.00	.00	.00	0.
1	0710	87	.00	.00	.00	1.	*	1	1940	237	.00	.00	.00	0.
1	0715	88	.00	.00	.00	1.	*	1	1945	238	.00	.00	.00	0.
1	0720	89	.00	.00	.00	1.	*	1	1950	239	.00	.00	.00	0.
1	0725	90	.00	.00	.00	1.	*	1	1955	240	.00	.00	.00	0.
1	0730	91	.00	.00	.00	1.	*	1	2000	241	.00	.00	.00	0.
1	0735	92	.00	.00	.00	0.	*	1	2005	242	.00	.00	.00	0.
1	0740	93	.00	.00	.00	0.	*	1	2010	243	.00	.00	.00	0.
1	0745	94	.00	.00	.00	0.	*	1	2015	244	.00	.00	.00	0.
1	0750	95	.00	.00	.00	0.	*	1	2020	245	.00	.00	.00	0.
1	0755	96	.00	.00	.00	0.	*	1	2025	246	.00	.00	.00	0.
1	0800	97	.00	.00	.00	0.	*	1	2030	247	.00	.00	.00	0.
1	0805	98	.00	.00	.00	0.	*	1	2035	248	.00	.00	.00	0.
1	0810	99	.00	.00	.00	0.	*	1	2040	249	.00	.00	.00	0.
1	0815	100	.00	.00	.00	0.	*	1	2045	250	.00	.00	.00	0.
1	0820	101	.00	.00	.00	0.	*	1	2050	251	.00	.00	.00	0.
1	0825	102	.00	.00	.00	0.	*	1	2055	252	.00	.00	.00	0.
1	0830	103	.00	.00	.00	0.	*	1	2100	253	.00	.00	.00	0.
1	0835	104	.00	.00	.00	0.	*	1	2105	254	.00	.00	.00	0.
1	0840	105	.00	.00	.00	0.	*	1	2110	255	.00	.00	.00	0.
1	0845	106	.00	.00	.00	0.	*	1	2115	256	.00	.00	.00	0.
1	0850	107	.00	.00	.00	0.	*	1	2120	257	.00	.00	.00	0.
1	0855	108	.00	.00	.00	0.	*	1	2125	258	.00	.00	.00	0.
1	0900	109	.00	.00	.00	0.	*	1	2130	259	.00	.00	.00	0.
1	0905	110	.00	.00	.00	0.	*	1	2135	260	.00	.00	.00	0.

1	0910	111	.00	.00	.00	0.	*	1	2140	261	.00	.00	.00	0.
1	0915	112	.00	.00	.00	0.	*	1	2145	262	.00	.00	.00	0.
1	0920	113	.00	.00	.00	0.	*	1	2150	263	.00	.00	.00	0.
1	0925	114	.00	.00	.00	0.	*	1	2155	264	.00	.00	.00	0.
1	0930	115	.00	.00	.00	0.	*	1	2200	265	.00	.00	.00	0.
1	0935	116	.00	.00	.00	0.	*	1	2205	266	.00	.00	.00	0.
1	0940	117	.00	.00	.00	0.	*	1	2210	267	.00	.00	.00	0.
1	0945	118	.00	.00	.00	0.	*	1	2215	268	.00	.00	.00	0.
1	0950	119	.00	.00	.00	0.	*	1	2220	269	.00	.00	.00	0.
1	0955	120	.00	.00	.00	0.	*	1	2225	270	.00	.00	.00	0.
1	1000	121	.00	.00	.00	0.	*	1	2230	271	.00	.00	.00	0.
1	1005	122	.00	.00	.00	0.	*	1	2235	272	.00	.00	.00	0.
1	1010	123	.00	.00	.00	0.	*	1	2240	273	.00	.00	.00	0.
1	1015	124	.00	.00	.00	0.	*	1	2245	274	.00	.00	.00	0.
1	1020	125	.00	.00	.00	0.	*	1	2250	275	.00	.00	.00	0.
1	1025	126	.00	.00	.00	0.	*	1	2255	276	.00	.00	.00	0.
1	1030	127	.00	.00	.00	0.	*	1	2300	277	.00	.00	.00	0.
1	1035	128	.00	.00	.00	0.	*	1	2305	278	.00	.00	.00	0.
1	1040	129	.00	.00	.00	0.	*	1	2310	279	.00	.00	.00	0.
1	1045	130	.00	.00	.00	0.	*	1	2315	280	.00	.00	.00	0.
1	1050	131	.00	.00	.00	0.	*	1	2320	281	.00	.00	.00	0.
1	1055	132	.00	.00	.00	0.	*	1	2325	282	.00	.00	.00	0.
1	1100	133	.00	.00	.00	0.	*	1	2330	283	.00	.00	.00	0.
1	1105	134	.00	.00	.00	0.	*	1	2335	284	.00	.00	.00	0.
1	1110	135	.00	.00	.00	0.	*	1	2340	285	.00	.00	.00	0.
1	1115	136	.00	.00	.00	0.	*	1	2345	286	.00	.00	.00	0.
1	1120	137	.00	.00	.00	0.	*	1	2350	287	.00	.00	.00	0.
1	1125	138	.00	.00	.00	0.	*	1	2355	288	.00	.00	.00	0.
1	1130	139	.00	.00	.00	0.	*	2	0000	289	.00	.00	.00	0.
1	1135	140	.00	.00	.00	0.	*	2	0005	290	.00	.00	.00	0.
1	1140	141	.00	.00	.00	0.	*	2	0010	291	.00	.00	.00	0.
1	1145	142	.00	.00	.00	0.	*	2	0015	292	.00	.00	.00	0.
1	1150	143	.00	.00	.00	0.	*	2	0020	293	.00	.00	.00	0.
1	1155	144	.00	.00	.00	0.	*	2	0025	294	.00	.00	.00	0.
1	1200	145	.00	.00	.00	0.	*	2	0030	295	.00	.00	.00	0.
1	1205	146	.00	.00	.00	0.	*	2	0035	296	.00	.00	.00	0.
1	1210	147	.00	.00	.00	0.	*	2	0040	297	.00	.00	.00	0.
1	1215	148	.00	.00	.00	0.	*	2	0045	298	.00	.00	.00	0.
1	1220	149	.00	.00	.00	0.	*	2	0050	299	.00	.00	.00	0.
1	1225	150	.00	.00	.00	0.	*	2	0055	300	.00	.00	.00	0.
							*							

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TOTAL RAINFALL = 1.19, TOTAL LOSS = 1.08, TOTAL EXCESS = .11

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
19.	4.50		5.	1.	1.	1.
		(INCHES)	.107	.110	.110	.110
		(AC-FT)	2.	2.	2.	2.

CUMULATIVE AREA = .41 SQ MI

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          **************
          *            *
 19 KK    *   Node17   *
          *            *
          **************
                       basin routing through transfer drain culverts

 26 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

             HYDROGRAPH ROUTING DATA

 21 RS          STORAGE ROUTING
                      NSTPS          1  NUMBER OF SUBREACHES
                       ITYP       STOR  TYPE OF INITIAL CONDITION
                     RSVRIC        .00  INITIAL CONDITION
                          X        .00 WORKING R AND D COEFFICIENT

 22 SV            STORAGE         .0       .0       .1       .2      1.8      3.4      7.6     13.8

 23 SE          ELEVATION      77.82    78.00    79.00    80.00    81.00    82.00    83.00    84.00

 24 SL          LOW-LEVEL OUTLET
                      ELEVL      77.82  ELEVATION AT CENTER OF OUTLET
                      CAREA      15.70  CROSS-SECTIONAL AREA
                       COQL        .60  COEFFICIENT
                       EXPL        .50  EXPONENT OF HEAD

 25 SS          SPILLWAY
                       CREL      83.80  SPILLWAY CREST ELEVATION
                      SPWID      15.00  SPILLWAY WIDTH
                       COQW       3.00  WEIR COEFFICIENT
                       EXPW       1.50  EXPONENT OF HEAD
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COMPUTED OUTFLOW-ELEVATION DATA

OUTFLOW	.00	109.17	115.06	121.61	128.96	137.24	146.67	157.49	170.03	184.75
ELEVATION	77.82	79.91	80.14	80.41	80.73	81.12	81.59	82.17	82.89	83.80
OUTFLOW	186.42	186.80	187.23	187.71	188.24	188.83	189.49	190.20	190.98	191.84
ELEVATION	83.86	83.87	83.89	83.90	83.91	83.93	83.95	83.96	83.98	84.00

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	.02	.11	.19	.20	.42	.85	1.37	1.79	1.98
OUTFLOW	.00	32.05	82.07	109.17	111.55	115.06	121.61	128.96	134.72	137.24
ELEVATION	77.82	78.00	79.00	79.91	80.00	80.14	80.41	80.73	81.00	81.12
STORAGE	2.73	3.38	4.07	7.09	7.57	12.56	12.95	13.03	13.10	13.19
OUTFLOW	146.67	154.46	157.49	170.03	171.95	184.75	186.42	186.80	187.23	187.71

ELEVATION	81.59	82.00	82.17	82.89	83.00	83.80	83.86	83.87	83.89	83.90

STORAGE	13.28	13.37	13.47	13.58	13.69	13.81
OUTFLOW	188.24	188.83	189.49	190.20	190.98	191.84
ELEVATION	83.91	83.93	83.95	83.96	83.98	84.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 0. TO 109.
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

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HYDROGRAPH AT STATION Node17

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DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	77.8	*	1		0820	101	0.	.0	77.8	*	1		1640	201	0.	.0	77.8
1		0005	2	0.	.0	77.8	*	1		0825	102	0.	.0	77.8	*	1		1645	202	0.	.0	77.8
1		0010	3	0.	.0	77.8	*	1		0830	103	0.	.0	77.8	*	1		1650	203	0.	.0	77.8
1		0015	4	0.	.0	77.8	*	1		0835	104	0.	.0	77.8	*	1		1655	204	0.	.0	77.8
1		0020	5	0.	.0	77.8	*	1		0840	105	0.	.0	77.8	*	1		1700	205	0.	.0	77.8
1		0025	6	0.	.0	77.8	*	1		0845	106	0.	.0	77.8	*	1		1705	206	0.	.0	77.8
1		0030	7	0.	.0	77.8	*	1		0850	107	0.	.0	77.8	*	1		1710	207	0.	.0	77.8
1		0035	8	0.	.0	77.8	*	1		0855	108	0.	.0	77.8	*	1		1715	208	0.	.0	77.8
1		0040	9	0.	.0	77.8	*	1		0900	109	0.	.0	77.8	*	1		1720	209	0.	.0	77.8
1		0045	10	0.	.0	77.8	*	1		0905	110	0.	.0	77.8	*	1		1725	210	0.	.0	77.8
1		0050	11	0.	.0	77.8	*	1		0910	111	0.	.0	77.8	*	1		1730	211	0.	.0	77.8
1		0055	12	0.	.0	77.8	*	1		0915	112	0.	.0	77.8	*	1		1735	212	0.	.0	77.8
1		0100	13	0.	.0	77.8	*	1		0920	113	0.	.0	77.8	*	1		1740	213	0.	.0	77.8
1		0105	14	0.	.0	77.8	*	1		0925	114	0.	.0	77.8	*	1		1745	214	0.	.0	77.8
1		0110	15	0.	.0	77.8	*	1		0930	115	0.	.0	77.8	*	1		1750	215	0.	.0	77.8
1		0115	16	1.	.0	77.8	*	1		0935	116	0.	.0	77.8	*	1		1755	216	0.	.0	77.8
1		0120	17	1.	.0	77.8	*	1		0940	117	0.	.0	77.8	*	1		1800	217	0.	.0	77.8
1		0125	18	1.	.0	77.8	*	1		0945	118	0.	.0	77.8	*	1		1805	218	0.	.0	77.8
1		0130	19	1.	.0	77.8	*	1		0950	119	0.	.0	77.8	*	1		1810	219	0.	.0	77.8
1		0135	20	1.	.0	77.8	*	1		0955	120	0.	.0	77.8	*	1		1815	220	0.	.0	77.8
1		0140	21	1.	.0	77.8	*	1		1000	121	0.	.0	77.8	*	1		1820	221	0.	.0	77.8
1		0145	22	1.	.0	77.8	*	1		1005	122	0.	.0	77.8	*	1		1825	222	0.	.0	77.8
1		0150	23	1.	.0	77.8	*	1		1010	123	0.	.0	77.8	*	1		1830	223	0.	.0	77.8
1		0155	24	1.	.0	77.8	*	1		1015	124	0.	.0	77.8	*	1		1835	224	0.	.0	77.8
1		0200	25	1.	.0	77.8	*	1		1020	125	0.	.0	77.8	*	1		1840	225	0.	.0	77.8
1		0205	26	1.	.0	77.8	*	1		1025	126	0.	.0	77.8	*	1		1845	226	0.	.0	77.8
1		0210	27	1.	.0	77.8	*	1		1030	127	0.	.0	77.8	*	1		1850	227	0.	.0	77.8
1		0215	28	1.	.0	77.8	*	1		1035	128	0.	.0	77.8	*	1		1855	228	0.	.0	77.8
1		0220	29	1.	.0	77.8	*	1		1040	129	0.	.0	77.8	*	1		1900	229	0.	.0	77.8
1		0225	30	1.	.0	77.8	*	1		1045	130	0.	.0	77.8	*	1		1905	230	0.	.0	77.8
1		0230	31	1.	.0	77.8	*	1		1050	131	0.	.0	77.8	*	1		1910	231	0.	.0	77.8
1		0235	32	1.	.0	77.8	*	1		1055	132	0.	.0	77.8	*	1		1915	232	0.	.0	77.8
1		0240	33	1.	.0	77.8	*	1		1100	133	0.	.0	77.8	*	1		1920	233	0.	.0	77.8
1		0245	34	1.	.0	77.8	*	1		1105	134	0.	.0	77.8	*	1		1925	234	0.	.0	77.8
1		0250	35	1.	.0	77.8	*	1		1110	135	0.	.0	77.8	*	1		1930	235	0.	.0	77.8
1		0255	36	1.	.0	77.8	*	1		1115	136	0.	.0	77.8	*	1		1935	236	0.	.0	77.8
1		0300	37	1.	.0	77.8	*	1		1120	137	0.	.0	77.8	*	1		1940	237	0.	.0	77.8
1		0305	38	1.	.0	77.8	*	1		1125	138	0.	.0	77.8	*	1		1945	238	0.	.0	77.8
1		0310	39	1.	.0	77.8	*	1		1130	139	0.	.0	77.8	*	1		1950	239	0.	.0	77.8
1		0315	40	1.	.0	77.8	*	1		1135	140	0.	.0	77.8	*	1		1955	240	0.	.0	77.8

1	0320	41	1.	.0	77.8	*	1	1140	141	0.	.0	77.8	*	1	2000	241	0.	.0	77.8
1	0325	42	1.	.0	77.8	*	1	1145	142	0.	.0	77.8	*	1	2005	242	0.	.0	77.8
1	0330	43	1.	.0	77.8	*	1	1150	143	0.	.0	77.8	*	1	2010	243	0.	.0	77.8
1	0335	44	2.	.0	77.8	*	1	1155	144	0.	.0	77.8	*	1	2015	244	0.	.0	77.8
1	0340	45	2.	.0	77.8	*	1	1200	145	0.	.0	77.8	*	1	2020	245	0.	.0	77.8
1	0345	46	3.	.0	77.8	*	1	1205	146	0.	.0	77.8	*	1	2025	246	0.	.0	77.8
1	0350	47	3.	.0	77.8	*	1	1210	147	0.	.0	77.8	*	1	2030	247	0.	.0	77.8
1	0355	48	4.	.0	77.8	*	1	1215	148	0.	.0	77.8	*	1	2035	248	0.	.0	77.8
1	0400	49	6.	.0	77.9	*	1	1220	149	0.	.0	77.8	*	1	2040	249	0.	.0	77.8
1	0405	50	8.	.0	77.9	*	1	1225	150	0.	.0	77.8	*	1	2045	250	0.	.0	77.8
1	0410	51	11.	.0	77.9	*	1	1230	151	0.	.0	77.8	*	1	2050	251	0.	.0	77.8
1	0415	52	14.	.0	77.9	*	1	1235	152	0.	.0	77.8	*	1	2055	252	0.	.0	77.8
1	0420	53	17.	.0	77.9	*	1	1240	153	0.	.0	77.8	*	1	2100	253	0.	.0	77.8
1	0425	54	19.	.0	77.9	*	1	1245	154	0.	.0	77.8	*	1	2105	254	0.	.0	77.8
1	0430	55	19.	.0	77.9	*	1	1250	155	0.	.0	77.8	*	1	2110	255	0.	.0	77.8
1	0435	56	18.	.0	77.9	*	1	1255	156	0.	.0	77.8	*	1	2115	256	0.	.0	77.8
1	0440	57	18.	.0	77.9	*	1	1300	157	0.	.0	77.8	*	1	2120	257	0.	.0	77.8
1	0445	58	17.	.0	77.9	*	1	1305	158	0.	.0	77.8	*	1	2125	258	0.	.0	77.8
1	0450	59	16.	.0	77.9	*	1	1310	159	0.	.0	77.8	*	1	2130	259	0.	.0	77.8
1	0455	60	15.	.0	77.9	*	1	1315	160	0.	.0	77.8	*	1	2135	260	0.	.0	77.8
1	0500	61	14.	.0	77.9	*	1	1320	161	0.	.0	77.8	*	1	2140	261	0.	.0	77.8
1	0505	62	12.	.0	77.9	*	1	1325	162	0.	.0	77.8	*	1	2145	262	0.	.0	77.8
1	0510	63	11.	.0	77.9	*	1	1330	163	0.	.0	77.8	*	1	2150	263	0.	.0	77.8
1	0515	64	10.	.0	77.9	*	1	1335	164	0.	.0	77.8	*	1	2155	264	0.	.0	77.8
1	0520	65	9.	.0	77.9	*	1	1340	165	0.	.0	77.8	*	1	2200	265	0.	.0	77.8
1	0525	66	8.	.0	77.9	*	1	1345	166	0.	.0	77.8	*	1	2205	266	0.	.0	77.8
1	0530	67	7.	.0	77.9	*	1	1350	167	0.	.0	77.8	*	1	2210	267	0.	.0	77.8
1	0535	68	7.	.0	77.9	*	1	1355	168	0.	.0	77.8	*	1	2215	268	0.	.0	77.8
1	0540	69	6.	.0	77.9	*	1	1400	169	0.	.0	77.8	*	1	2220	269	0.	.0	77.8
1	0545	70	5.	.0	77.9	*	1	1405	170	0.	.0	77.8	*	1	2225	270	0.	.0	77.8
1	0550	71	5.	.0	77.8	*	1	1410	171	0.	.0	77.8	*	1	2230	271	0.	.0	77.8
1	0555	72	4.	.0	77.8	*	1	1415	172	0.	.0	77.8	*	1	2235	272	0.	.0	77.8
1	0600	73	4.	.0	77.8	*	1	1420	173	0.	.0	77.8	*	1	2240	273	0.	.0	77.8
1	0605	74	4.	.0	77.8	*	1	1425	174	0.	.0	77.8	*	1	2245	274	0.	.0	77.8
1	0610	75	3.	.0	77.8	*	1	1430	175	0.	.0	77.8	*	1	2250	275	0.	.0	77.8
1	0615	76	3.	.0	77.8	*	1	1435	176	0.	.0	77.8	*	1	2255	276	0.	.0	77.8
1	0620	77	3.	.0	77.8	*	1	1440	177	0.	.0	77.8	*	1	2300	277	0.	.0	77.8
1	0625	78	3.	.0	77.8	*	1	1445	178	0.	.0	77.8	*	1	2305	278	0.	.0	77.8
1	0630	79	2.	.0	77.8	*	1	1450	179	0.	.0	77.8	*	1	2310	279	0.	.0	77.8
1	0635	80	2.	.0	77.8	*	1	1455	180	0.	.0	77.8	*	1	2315	280	0.	.0	77.8
1	0640	81	2.	.0	77.8	*	1	1500	181	0.	.0	77.8	*	1	2320	281	0.	.0	77.8
1	0645	82	2.	.0	77.8	*	1	1505	182	0.	.0	77.8	*	1	2325	282	0.	.0	77.8
1	0650	83	1.	.0	77.8	*	1	1510	183	0.	.0	77.8	*	1	2330	283	0.	.0	77.8
1	0655	84	1.	.0	77.8	*	1	1515	184	0.	.0	77.8	*	1	2335	284	0.	.0	77.8
1	0700	85	1.	.0	77.8	*	1	1520	185	0.	.0	77.8	*	1	2340	285	0.	.0	77.8
1	0705	86	1.	.0	77.8	*	1	1525	186	0.	.0	77.8	*	1	2345	286	0.	.0	77.8
1	0710	87	1.	.0	77.8	*	1	1530	187	0.	.0	77.8	*	1	2350	287	0.	.0	77.8
1	0715	88	1.	.0	77.8	*	1	1535	188	0.	.0	77.8	*	1	2355	288	0.	.0	77.8
1	0720	89	1.	.0	77.8	*	1	1540	189	0.	.0	77.8	*	2	0000	289	0.	.0	77.8
1	0725	90	1.	.0	77.8	*	1	1545	190	0.	.0	77.8	*	2	0005	290	0.	.0	77.8
1	0730	91	1.	.0	77.8	*	1	1550	191	0.	.0	77.8	*	2	0010	291	0.	.0	77.8
1	0735	92	0.	.0	77.8	*	1	1555	192	0.	.0	77.8	*	2	0015	292	0.	.0	77.8
1	0740	93	0.	.0	77.8	*	1	1600	193	0.	.0	77.8	*	2	0020	293	0.	.0	77.8
1	0745	94	0.	.0	77.8	*	1	1605	194	0.	.0	77.8	*	2	0025	294	0.	.0	77.8
1	0750	95	0.	.0	77.8	*	1	1610	195	0.	.0	77.8	*	2	0030	295	0.	.0	77.8
1	0755	96	0.	.0	77.8	*	1	1615	196	0.	.0	77.8	*	2	0035	296	0.	.0	77.8
1	0800	97	0.	.0	77.8	*	1	1620	197	0.	.0	77.8	*	2	0040	297	0.	.0	77.8
1	0805	98	0.	.0	77.8	*	1	1625	198	0.	.0	77.8	*	2	0045	298	0.	.0	77.8

```
1    0810  99      0.      .0    77.8 *  1     1630 199      0.      .0    77.8 *  2     0050 299      0.      .0    77.8
1    0815 100      0.      .0    77.8 *  1     1635 200      0.      .0    77.8 *  2     0055 300      0.      .0    77.8
                                        *                                           *
*****************************************************************************************************************************

 PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                      6-HR       24-HR       72-HR     24.92-HR
  (CFS)       (HR)
                          (CFS)
     19.      4.50                     5.          1.          1.          1.
                        (INCHES)     .107        .110        .110        .110
                         (AC-FT)      2.          2.          2.          2.

PEAK STORAGE   TIME                         MAXIMUM AVERAGE STORAGE
                                      6-HR       24-HR       72-HR     24.92-HR
 (AC-FT)      (HR)
      0.      4.42                     0.          0.          0.          0.

 PEAK STAGE    TIME                          MAXIMUM AVERAGE STAGE
                                      6-HR       24-HR       72-HR     24.92-HR
  (FEET)      (HR)
   77.93      4.50                   77.85       77.83       77.83       77.83

                        CUMULATIVE AREA =     .41 SQ MI


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


          **************
          *            *
 27 KK    *    Node10  *
          *            *
          **************
                        Route water from culverts to middle of subdivision

 33 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

             HYDROGRAPH ROUTING DATA

 29 RS          STORAGE ROUTING
                      NSTPS          1  NUMBER OF SUBREACHES
                       ITYP       STOR  TYPE OF INITIAL CONDITION
                     RSVRIC        .00  INITIAL CONDITION
                          X        .00 WORKING R AND D COEFFICIENT

 30 RC          NORMAL DEPTH CHANNEL
                        ANL       .035  LEFT OVERBANK N-VALUE
                       ANCH       .035  MAIN CHANNEL N-VALUE
                        ANR       .035  RIGHT OVERBANK N-VALUE
                      RLNTH       650.  REACH LENGTH
                        SEL      .0022  ENERGY SLOPE
                      ELMAX       15.0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION
```

CROSS-SECTION DATA

		--- LEFT OVERBANK ---		+ ------ MAIN CHANNEL		------- +		--- RIGHT OVERBANK ---	
32 RY	ELEVATION	15.00	11.00	10.00	5.85	5.85	10.00	11.00	15.00
31 RX	DISTANCE	.00	20.00	120.00	136.60	146.60	162.20	262.20	282.20

***

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	.09	.20	.34	.50	.69	.91	1.16	1.43	1.78
OUTFLOW	.00	6.32	21.74	46.35	81.01	126.67	184.32	254.90	339.36	449.06
ELEVATION	5.85	6.33	6.81	7.29	7.78	8.26	8.74	9.22	9.70	10.18
STORAGE	2.70	4.27	6.04	7.84	9.68	11.55	13.46	15.40	17.38	19.39
OUTFLOW	628.29	931.10	1390.33	1963.47	2640.18	3413.96	4280.30	5235.91	6278.27	7405.46
ELEVATION	10.67	11.15	11.63	12.11	12.59	13.07	13.56	14.04	14.52	15.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 255. TO 7405.
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

****

HYDROGRAPH AT STATION Node10

****

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	5.8	*	1		0820	101	0.	.0	5.9	*	1		1640	201	0.	.0	5.8
1		0005	2	0.	.0	5.9	*	1		0825	102	0.	.0	5.9	*	1		1645	202	0.	.0	5.8
1		0010	3	0.	.0	5.9	*	1		0830	103	0.	.0	5.9	*	1		1650	203	0.	.0	5.8
1		0015	4	0.	.0	5.9	*	1		0835	104	0.	.0	5.9	*	1		1655	204	0.	.0	5.8
1		0020	5	0.	.0	5.9	*	1		0840	105	0.	.0	5.9	*	1		1700	205	0.	.0	5.8
1		0025	6	0.	.0	5.9	*	1		0845	106	0.	.0	5.9	*	1		1705	206	0.	.0	5.8
1		0030	7	0.	.0	5.9	*	1		0850	107	0.	.0	5.9	*	1		1710	207	0.	.0	5.8
1		0035	8	0.	.0	5.9	*	1		0855	108	0.	.0	5.9	*	1		1715	208	0.	.0	5.8
1		0040	9	0.	.0	5.9	*	1		0900	109	0.	.0	5.9	*	1		1720	209	0.	.0	5.8
1		0045	10	0.	.0	5.9	*	1		0905	110	0.	.0	5.9	*	1		1725	210	0.	.0	5.8
1		0050	11	0.	.0	5.9	*	1		0910	111	0.	.0	5.9	*	1		1730	211	0.	.0	5.8
1		0055	12	0.	.0	5.9	*	1		0915	112	0.	.0	5.9	*	1		1735	212	0.	.0	5.8
1		0100	13	0.	.0	5.9	*	1		0920	113	0.	.0	5.9	*	1		1740	213	0.	.0	5.8
1		0105	14	0.	.0	5.9	*	1		0925	114	0.	.0	5.9	*	1		1745	214	0.	.0	5.8
1		0110	15	0.	.0	5.9	*	1		0930	115	0.	.0	5.9	*	1		1750	215	0.	.0	5.8
1		0115	16	0.	.0	5.9	*	1		0935	116	0.	.0	5.9	*	1		1755	216	0.	.0	5.8
1		0120	17	0.	.0	5.9	*	1		0940	117	0.	.0	5.9	*	1		1800	217	0.	.0	5.8
1		0125	18	1.	.0	5.9	*	1		0945	118	0.	.0	5.9	*	1		1805	218	0.	.0	5.8
1		0130	19	1.	.0	5.9	*	1		0950	119	0.	.0	5.9	*	1		1810	219	0.	.0	5.8
1		0135	20	1.	.0	5.9	*	1		0955	120	0.	.0	5.9	*	1		1815	220	0.	.0	5.8
1		0140	21	1.	.0	5.9	*	1		1000	121	0.	.0	5.9	*	1		1820	221	0.	.0	5.8
1		0145	22	1.	.0	5.9	*	1		1005	122	0.	.0	5.9	*	1		1825	222	0.	.0	5.8
1		0150	23	1.	.0	5.9	*	1		1010	123	0.	.0	5.9	*	1		1830	223	0.	.0	5.8
1		0155	24	1.	.0	5.9	*	1		1015	124	0.	.0	5.9	*	1		1835	224	0.	.0	5.8
1		0200	25	1.	.0	5.9	*	1		1020	125	0.	.0	5.9	*	1		1840	225	0.	.0	5.8
1		0205	26	1.	.0	5.9	*	1		1025	126	0.	.0	5.9	*	1		1845	226	0.	.0	5.8
1		0210	27	1.	.0	5.9	*	1		1030	127	0.	.0	5.9	*	1		1850	227	0.	.0	5.8

1	0215	28	1.	.0	5.9	*	1	1035	128	0.	.0	5.9	*	1	1855	228	0.	.0	5.8
1	0220	29	1.	.0	5.9	*	1	1040	129	0.	.0	5.9	*	1	1900	229	0.	.0	5.8
1	0225	30	1.	.0	5.9	*	1	1045	130	0.	.0	5.9	*	1	1905	230	0.	.0	5.8
1	0230	31	1.	.0	5.9	*	1	1050	131	0.	.0	5.9	*	1	1910	231	0.	.0	5.8
1	0235	32	1.	.0	5.9	*	1	1055	132	0.	.0	5.9	*	1	1915	232	0.	.0	5.8
1	0240	33	1.	.0	5.9	*	1	1100	133	0.	.0	5.9	*	1	1920	233	0.	.0	5.8
1	0245	34	1.	.0	5.9	*	1	1105	134	0.	.0	5.9	*	1	1925	234	0.	.0	5.8
1	0250	35	1.	.0	5.9	*	1	1110	135	0.	.0	5.8	*	1	1930	235	0.	.0	5.8
1	0255	36	1.	.0	5.9	*	1	1115	136	0.	.0	5.8	*	1	1935	236	0.	.0	5.8
1	0300	37	1.	.0	5.9	*	1	1120	137	0.	.0	5.8	*	1	1940	237	0.	.0	5.8
1	0305	38	1.	.0	5.9	*	1	1125	138	0.	.0	5.8	*	1	1945	238	0.	.0	5.8
1	0310	39	1.	.0	5.9	*	1	1130	139	0.	.0	5.8	*	1	1950	239	0.	.0	5.8
1	0315	40	1.	.0	5.9	*	1	1135	140	0.	.0	5.8	*	1	1955	240	0.	.0	5.8
1	0320	41	1.	.0	5.9	*	1	1140	141	0.	.0	5.8	*	1	2000	241	0.	.0	5.8
1	0325	42	1.	.0	5.9	*	1	1145	142	0.	.0	5.8	*	1	2005	242	0.	.0	5.8
1	0330	43	1.	.0	5.9	*	1	1150	143	0.	.0	5.8	*	1	2010	243	0.	.0	5.8
1	0335	44	1.	.0	6.0	*	1	1155	144	0.	.0	5.8	*	1	2015	244	0.	.0	5.8
1	0340	45	2.	.0	6.0	*	1	1200	145	0.	.0	5.8	*	1	2020	245	0.	.0	5.8
1	0345	46	2.	.0	6.0	*	1	1205	146	0.	.0	5.8	*	1	2025	246	0.	.0	5.8
1	0350	47	2.	.0	6.0	*	1	1210	147	0.	.0	5.8	*	1	2030	247	0.	.0	5.8
1	0355	48	3.	.0	6.1	*	1	1215	148	0.	.0	5.8	*	1	2035	248	0.	.0	5.8
1	0400	49	4.	.1	6.1	*	1	1220	149	0.	.0	5.8	*	1	2040	249	0.	.0	5.8
1	0405	50	5.	.1	6.2	*	1	1225	150	0.	.0	5.8	*	1	2045	250	0.	.0	5.8
1	0410	51	7.	.1	6.4	*	1	1230	151	0.	.0	5.8	*	1	2050	251	0.	.0	5.8
1	0415	52	10.	.1	6.5	*	1	1235	152	0.	.0	5.8	*	1	2055	252	0.	.0	5.8
1	0420	53	13.	.1	6.6	*	1	1240	153	0.	.0	5.8	*	1	2100	253	0.	.0	5.8
1	0425	54	16.	.2	6.6	*	1	1245	154	0.	.0	5.8	*	1	2105	254	0.	.0	5.8
1	0430	55	18.	.2	6.7	*	1	1250	155	0.	.0	5.8	*	1	2110	255	0.	.0	5.8
1	0435	56	18.	.2	6.7	*	1	1255	156	0.	.0	5.8	*	1	2115	256	0.	.0	5.8
1	0440	57	18.	.2	6.7	*	1	1300	157	0.	.0	5.8	*	1	2120	257	0.	.0	5.8
1	0445	58	18.	.2	6.7	*	1	1305	158	0.	.0	5.8	*	1	2125	258	0.	.0	5.8
1	0450	59	17.	.2	6.7	*	1	1310	159	0.	.0	5.8	*	1	2130	259	0.	.0	5.8
1	0455	60	16.	.2	6.6	*	1	1315	160	0.	.0	5.8	*	1	2135	260	0.	.0	5.8
1	0500	61	15.	.1	6.6	*	1	1320	161	0.	.0	5.8	*	1	2140	261	0.	.0	5.8
1	0505	62	14.	.1	6.6	*	1	1325	162	0.	.0	5.8	*	1	2145	262	0.	.0	5.8
1	0510	63	12.	.1	6.5	*	1	1330	163	0.	.0	5.8	*	1	2150	263	0.	.0	5.8
1	0515	64	11.	.1	6.5	*	1	1335	164	0.	.0	5.8	*	1	2155	264	0.	.0	5.8
1	0520	65	10.	.1	6.5	*	1	1340	165	0.	.0	5.8	*	1	2200	265	0.	.0	5.8
1	0525	66	9.	.1	6.4	*	1	1345	166	0.	.0	5.8	*	1	2205	266	0.	.0	5.8
1	0530	67	8.	.1	6.4	*	1	1350	167	0.	.0	5.8	*	1	2210	267	0.	.0	5.8
1	0535	68	7.	.1	6.4	*	1	1355	168	0.	.0	5.8	*	1	2215	268	0.	.0	5.8
1	0540	69	7.	.1	6.3	*	1	1400	169	0.	.0	5.8	*	1	2220	269	0.	.0	5.8
1	0545	70	6.	.1	6.3	*	1	1405	170	0.	.0	5.8	*	1	2225	270	0.	.0	5.8
1	0550	71	6.	.1	6.3	*	1	1410	171	0.	.0	5.8	*	1	2230	271	0.	.0	5.8
1	0555	72	5.	.1	6.3	*	1	1415	172	0.	.0	5.8	*	1	2235	272	0.	.0	5.8
1	0600	73	5.	.1	6.2	*	1	1420	173	0.	.0	5.8	*	1	2240	273	0.	.0	5.8
1	0605	74	4.	.1	6.2	*	1	1425	174	0.	.0	5.8	*	1	2245	274	0.	.0	5.8
1	0610	75	4.	.1	6.2	*	1	1430	175	0.	.0	5.8	*	1	2250	275	0.	.0	5.8
1	0615	76	4.	.1	6.1	*	1	1435	176	0.	.0	5.8	*	1	2255	276	0.	.0	5.8
1	0620	77	3.	.0	6.1	*	1	1440	177	0.	.0	5.8	*	1	2300	277	0.	.0	5.8
1	0625	78	3.	.0	6.1	*	1	1445	178	0.	.0	5.8	*	1	2305	278	0.	.0	5.8
1	0630	79	3.	.0	6.1	*	1	1450	179	0.	.0	5.8	*	1	2310	279	0.	.0	5.8
1	0635	80	3.	.0	6.0	*	1	1455	180	0.	.0	5.8	*	1	2315	280	0.	.0	5.8
1	0640	81	2.	.0	6.0	*	1	1500	181	0.	.0	5.8	*	1	2320	281	0.	.0	5.8
1	0645	82	2.	.0	6.0	*	1	1505	182	0.	.0	5.8	*	1	2325	282	0.	.0	5.8
1	0650	83	2.	.0	6.0	*	1	1510	183	0.	.0	5.8	*	1	2330	283	0.	.0	5.8
1	0655	84	2.	.0	6.0	*	1	1515	184	0.	.0	5.8	*	1	2335	284	0.	.0	5.8
1	0700	85	1.	.0	6.0	*	1	1520	185	0.	.0	5.8	*	1	2340	285	0.	.0	5.8

```
1    0705  86    1.    .0    5.9 *  1    1525 186    0.    .0    5.8 *  1    2345 286    0.    .0    5.8
1    0710  87    1.    .0    5.9 *  1    1530 187    0.    .0    5.8 *  1    2350 287    0.    .0    5.8
1    0715  88    1.    .0    5.9 *  1    1535 188    0.    .0    5.8 *  1    2355 288    0.    .0    5.8
1    0720  89    1.    .0    5.9 *  1    1540 189    0.    .0    5.8 *  2    0000 289    0.    .0    5.8
1    0725  90    1.    .0    5.9 *  1    1545 190    0.    .0    5.8 *  2    0005 290    0.    .0    5.8
1    0730  91    1.    .0    5.9 *  1    1550 191    0.    .0    5.8 *  2    0010 291    0.    .0    5.8
1    0735  92    1.    .0    5.9 *  1    1555 192    0.    .0    5.8 *  2    0015 292    0.    .0    5.8
1    0740  93    1.    .0    5.9 *  1    1600 193    0.    .0    5.8 *  2    0020 293    0.    .0    5.8
1    0745  94    0.    .0    5.9 *  1    1605 194    0.    .0    5.8 *  2    0025 294    0.    .0    5.8
1    0750  95    0.    .0    5.9 *  1    1610 195    0.    .0    5.8 *  2    0030 295    0.    .0    5.8
1    0755  96    0.    .0    5.9 *  1    1615 196    0.    .0    5.8 *  2    0035 296    0.    .0    5.8
1    0800  97    0.    .0    5.9 *  1    1620 197    0.    .0    5.8 *  2    0040 297    0.    .0    5.8
1    0805  98    0.    .0    5.9 *  1    1625 198    0.    .0    5.8 *  2    0045 298    0.    .0    5.8
1    0810  99    0.    .0    5.9 *  1    1630 199    0.    .0    5.8 *  2    0050 299    0.    .0    5.8
1    0815 100    0.    .0    5.9 *  1    1635 200    0.    .0    5.8 *  2    0055 300    0.    .0    5.8
                                    *                                    *
*****************************************************************************************************************

 PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                   6-HR       24-HR       72-HR     24.92-HR
  (CFS)       (HR)
                          (CFS)
    18.       4.58                 5.          1.          1.          1.
                        (INCHES)  .107        .110        .110        .110
                         (AC-FT)   2.          2.          2.          2.

PEAK STORAGE   TIME                         MAXIMUM AVERAGE STORAGE
                                   6-HR       24-HR       72-HR     24.92-HR
 (AC-FT)      (HR)
      0.      4.58                 0.          0.          0.          0.

 PEAK STAGE    TIME                          MAXIMUM AVERAGE STAGE
                                   6-HR       24-HR       72-HR     24.92-HR
  (FEET)      (HR)
    6.71      4.58                6.14        5.92        5.92        5.92

                        CUMULATIVE AREA =     .41 SQ MI


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** **


          **************
          *            *
  34 KK   *   DEVELO   *     PE RAINFALL FOR SUBBASIN G2
          *            *
          **************
                         6-HOUR RAINFALL PATTERN NO. 1.23 WAS USED TO FIND TC & R FOR THIS BASIN
                         THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .990
                        L =  .41  Kb = .064  Adj. Slope =   48.9

  44 KO          OUTPUT CONTROL VARIABLES
                       IPRNT          2  PRINT CONTROL
                       IPLOT          0  PLOT CONTROL
                       QSCAL         0.  HYDROGRAPH PLOT SCALE
```

SUBBASIN RUNOFF DATA

38 BA SUBBASIN CHARACTERISTICS

TAREA	.04	SUBBASIN AREA

PRECIPITATION DATA

39 PB

STORM	1.19	BASIN TOTAL PRECIPITATION

11 PI INCREMENTAL PRECIPITATION PATTERN

.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.01	.01	.01	.01	.01	.01	.03
.03	.03	.06	.06	.06	.14	.14	.14	.03	.03
.03	.01	.01	.01	.01	.01	.01	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00								

40 LG GREEN AND AMPT LOSS RATE

STRTL	.43	STARTING LOSS
DTH	.25	MOISTURE DEFICIT
PSIF	3.50	WETTING FRONT SUCTION
XKSAT	.51	HYDRAULIC CONDUCTIVITY
RTIMP	30.00	PERCENT IMPERVIOUS AREA

41 UC CLARK UNITGRAPH

TC	.80	TIME OF CONCENTRATION
R	.88	STORAGE COEFFICIENT

42 UA ACCUMULATED-AREA VS. TIME, 11 ORDINATES

.0	5.0	16.0	30.0	65.0	77.0	84.0	90.0	94.0	97.0
100.0									

***

UNIT HYDROGRAPH PARAMETERS

CLARK TC= .80 HR, R= .88 HR

SNYDER TP= .51 HR, CP= .38

UNIT HYDROGRAPH

60 END-OF-PERIOD ORDINATES

1.	3.	7.	13.	18.	19.	19.	19.	18.	17.
16.	14.	13.	12.	11.	10.	9.	8.	7.	7.
6.	6.	5.	5.	4.	4.	3.	3.	3.	3.
2.	2.	2.	2.	2.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

****

HYDROGRAPH AT STATION DEVELO

****

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1		0000	1	.00	.00	.00	0.	*	1		1230	151	.00	.00	.00	0.

1	0005	2	.00	.00	.00	0.	*	1	1235	152	.00	.00	.00	0.
1	0010	3	.00	.00	.00	0.	*	1	1240	153	.00	.00	.00	0.
1	0015	4	.00	.00	.00	0.	*	1	1245	154	.00	.00	.00	0.
1	0020	5	.00	.00	.00	0.	*	1	1250	155	.00	.00	.00	0.
1	0025	6	.00	.00	.00	0.	*	1	1255	156	.00	.00	.00	0.
1	0030	7	.00	.00	.00	0.	*	1	1300	157	.00	.00	.00	0.
1	0035	8	.00	.00	.00	0.	*	1	1305	158	.00	.00	.00	0.
1	0040	9	.00	.00	.00	0.	*	1	1310	159	.00	.00	.00	0.
1	0045	10	.00	.00	.00	0.	*	1	1315	160	.00	.00	.00	0.
1	0050	11	.00	.00	.00	0.	*	1	1320	161	.00	.00	.00	0.
1	0055	12	.00	.00	.00	0.	*	1	1325	162	.00	.00	.00	0.
1	0100	13	.00	.00	.00	0.	*	1	1330	163	.00	.00	.00	0.
1	0105	14	.00	.00	.00	0.	*	1	1335	164	.00	.00	.00	0.
1	0110	15	.00	.00	.00	0.	*	1	1340	165	.00	.00	.00	0.
1	0115	16	.00	.00	.00	0.	*	1	1345	166	.00	.00	.00	0.
1	0120	17	.00	.00	.00	0.	*	1	1350	167	.00	.00	.00	0.
1	0125	18	.00	.00	.00	0.	*	1	1355	168	.00	.00	.00	0.
1	0130	19	.00	.00	.00	0.	*	1	1400	169	.00	.00	.00	0.
1	0135	20	.00	.00	.00	0.	*	1	1405	170	.00	.00	.00	0.
1	0140	21	.00	.00	.00	0.	*	1	1410	171	.00	.00	.00	0.
1	0145	22	.00	.00	.00	0.	*	1	1415	172	.00	.00	.00	0.
1	0150	23	.00	.00	.00	0.	*	1	1420	173	.00	.00	.00	0.
1	0155	24	.00	.00	.00	0.	*	1	1425	174	.00	.00	.00	0.
1	0200	25	.00	.00	.00	0.	*	1	1430	175	.00	.00	.00	0.
1	0205	26	.00	.00	.00	0.	*	1	1435	176	.00	.00	.00	0.
1	0210	27	.00	.00	.00	0.	*	1	1440	177	.00	.00	.00	0.
1	0215	28	.00	.00	.00	0.	*	1	1445	178	.00	.00	.00	0.
1	0220	29	.01	.00	.00	0.	*	1	1450	179	.00	.00	.00	0.
1	0225	30	.01	.00	.00	0.	*	1	1455	180	.00	.00	.00	0.
1	0230	31	.01	.00	.00	0.	*	1	1500	181	.00	.00	.00	0.
1	0235	32	.00	.00	.00	0.	*	1	1505	182	.00	.00	.00	0.
1	0240	33	.00	.00	.00	0.	*	1	1510	183	.00	.00	.00	0.
1	0245	34	.00	.00	.00	0.	*	1	1515	184	.00	.00	.00	0.
1	0250	35	.01	.01	.00	0.	*	1	1520	185	.00	.00	.00	0.
1	0255	36	.01	.01	.00	0.	*	1	1525	186	.00	.00	.00	0.
1	0300	37	.01	.01	.00	0.	*	1	1530	187	.00	.00	.00	0.
1	0305	38	.01	.01	.00	0.	*	1	1535	188	.00	.00	.00	0.
1	0310	39	.01	.01	.00	0.	*	1	1540	189	.00	.00	.00	0.
1	0315	40	.01	.01	.00	0.	*	1	1545	190	.00	.00	.00	0.
1	0320	41	.03	.02	.01	0.	*	1	1550	191	.00	.00	.00	0.
1	0325	42	.03	.02	.01	1.	*	1	1555	192	.00	.00	.00	0.
1	0330	43	.03	.02	.01	1.	*	1	1600	193	.00	.00	.00	0.
1	0335	44	.07	.05	.02	1.	*	1	1605	194	.00	.00	.00	0.
1	0340	45	.07	.05	.02	1.	*	1	1610	195	.00	.00	.00	0.
1	0345	46	.07	.05	.02	1.	*	1	1615	196	.00	.00	.00	0.
1	0350	47	.16	.11	.05	1.	*	1	1620	197	.00	.00	.00	0.
1	0355	48	.16	.11	.05	2.	*	1	1625	198	.00	.00	.00	0.
1	0400	49	.16	.09	.07	2.	*	1	1630	199	.00	.00	.00	0.
1	0405	50	.04	.03	.01	3.	*	1	1635	200	.00	.00	.00	0.
1	0410	51	.04	.03	.01	4.	*	1	1640	201	.00	.00	.00	0.
1	0415	52	.04	.03	.01	5.	*	1	1645	202	.00	.00	.00	0.
1	0420	53	.01	.01	.00	5.	*	1	1650	203	.00	.00	.00	0.
1	0425	54	.01	.01	.00	5.	*	1	1655	204	.00	.00	.00	0.
1	0430	55	.01	.01	.00	5.	*	1	1700	205	.00	.00	.00	0.
1	0435	56	.01	.01	.00	5.	*	1	1705	206	.00	.00	.00	0.
1	0440	57	.01	.01	.00	5.	*	1	1710	207	.00	.00	.00	0.
1	0445	58	.01	.01	.00	5.	*	1	1715	208	.00	.00	.00	0.
1	0450	59	.00	.00	.00	4.	*	1	1720	209	.00	.00	.00	0.

1	0455	60	.00	.00	.00	4.	*	1	1725	210	.00	.00	.00	0.
1	0500	61	.00	.00	.00	4.	*	1	1730	211	.00	.00	.00	0.
1	0505	62	.00	.00	.00	3.	*	1	1735	212	.00	.00	.00	0.
1	0510	63	.00	.00	.00	3.	*	1	1740	213	.00	.00	.00	0.
1	0515	64	.00	.00	.00	3.	*	1	1745	214	.00	.00	.00	0.
1	0520	65	.00	.00	.00	3.	*	1	1750	215	.00	.00	.00	0.
1	0525	66	.00	.00	.00	3.	*	1	1755	216	.00	.00	.00	0.
1	0530	67	.00	.00	.00	2.	*	1	1800	217	.00	.00	.00	0.
1	0535	68	.00	.00	.00	2.	*	1	1805	218	.00	.00	.00	0.
1	0540	69	.00	.00	.00	2.	*	1	1810	219	.00	.00	.00	0.
1	0545	70	.00	.00	.00	2.	*	1	1815	220	.00	.00	.00	0.
1	0550	71	.00	.00	.00	2.	*	1	1820	221	.00	.00	.00	0.
1	0555	72	.00	.00	.00	2.	*	1	1825	222	.00	.00	.00	0.
1	0600	73	.00	.00	.00	1.	*	1	1830	223	.00	.00	.00	0.
1	0605	74	.00	.00	.00	1.	*	1	1835	224	.00	.00	.00	0.
1	0610	75	.00	.00	.00	1.	*	1	1840	225	.00	.00	.00	0.
1	0615	76	.00	.00	.00	1.	*	1	1845	226	.00	.00	.00	0.
1	0620	77	.00	.00	.00	1.	*	1	1850	227	.00	.00	.00	0.
1	0625	78	.00	.00	.00	1.	*	1	1855	228	.00	.00	.00	0.
1	0630	79	.00	.00	.00	1.	*	1	1900	229	.00	.00	.00	0.
1	0635	80	.00	.00	.00	1.	*	1	1905	230	.00	.00	.00	0.
1	0640	81	.00	.00	.00	1.	*	1	1910	231	.00	.00	.00	0.
1	0645	82	.00	.00	.00	1.	*	1	1915	232	.00	.00	.00	0.
1	0650	83	.00	.00	.00	1.	*	1	1920	233	.00	.00	.00	0.
1	0655	84	.00	.00	.00	1.	*	1	1925	234	.00	.00	.00	0.
1	0700	85	.00	.00	.00	1.	*	1	1930	235	.00	.00	.00	0.
1	0705	86	.00	.00	.00	0.	*	1	1935	236	.00	.00	.00	0.
1	0710	87	.00	.00	.00	0.	*	1	1940	237	.00	.00	.00	0.
1	0715	88	.00	.00	.00	0.	*	1	1945	238	.00	.00	.00	0.
1	0720	89	.00	.00	.00	0.	*	1	1950	239	.00	.00	.00	0.
1	0725	90	.00	.00	.00	0.	*	1	1955	240	.00	.00	.00	0.
1	0730	91	.00	.00	.00	0.	*	1	2000	241	.00	.00	.00	0.
1	0735	92	.00	.00	.00	0.	*	1	2005	242	.00	.00	.00	0.
1	0740	93	.00	.00	.00	0.	*	1	2010	243	.00	.00	.00	0.
1	0745	94	.00	.00	.00	0.	*	1	2015	244	.00	.00	.00	0.
1	0750	95	.00	.00	.00	0.	*	1	2020	245	.00	.00	.00	0.
1	0755	96	.00	.00	.00	0.	*	1	2025	246	.00	.00	.00	0.
1	0800	97	.00	.00	.00	0.	*	1	2030	247	.00	.00	.00	0.
1	0805	98	.00	.00	.00	0.	*	1	2035	248	.00	.00	.00	0.
1	0810	99	.00	.00	.00	0.	*	1	2040	249	.00	.00	.00	0.
1	0815	100	.00	.00	.00	0.	*	1	2045	250	.00	.00	.00	0.
1	0820	101	.00	.00	.00	0.	*	1	2050	251	.00	.00	.00	0.
1	0825	102	.00	.00	.00	0.	*	1	2055	252	.00	.00	.00	0.
1	0830	103	.00	.00	.00	0.	*	1	2100	253	.00	.00	.00	0.
1	0835	104	.00	.00	.00	0.	*	1	2105	254	.00	.00	.00	0.
1	0840	105	.00	.00	.00	0.	*	1	2110	255	.00	.00	.00	0.
1	0845	106	.00	.00	.00	0.	*	1	2115	256	.00	.00	.00	0.
1	0850	107	.00	.00	.00	0.	*	1	2120	257	.00	.00	.00	0.
1	0855	108	.00	.00	.00	0.	*	1	2125	258	.00	.00	.00	0.
1	0900	109	.00	.00	.00	0.	*	1	2130	259	.00	.00	.00	0.
1	0905	110	.00	.00	.00	0.	*	1	2135	260	.00	.00	.00	0.
1	0910	111	.00	.00	.00	0.	*	1	2140	261	.00	.00	.00	0.
1	0915	112	.00	.00	.00	0.	*	1	2145	262	.00	.00	.00	0.
1	0920	113	.00	.00	.00	0.	*	1	2150	263	.00	.00	.00	0.
1	0925	114	.00	.00	.00	0.	*	1	2155	264	.00	.00	.00	0.
1	0930	115	.00	.00	.00	0.	*	1	2200	265	.00	.00	.00	0.
1	0935	116	.00	.00	.00	0.	*	1	2205	266	.00	.00	.00	0.
1	0940	117	.00	.00	.00	0.	*	1	2210	267	.00	.00	.00	0.

1	0945	118	.00	.00	.00	0.	*	1	2215	268	.00	.00	.00	0.
1	0950	119	.00	.00	.00	0.	*	1	2220	269	.00	.00	.00	0.
1	0955	120	.00	.00	.00	0.	*	1	2225	270	.00	.00	.00	0.
1	1000	121	.00	.00	.00	0.	*	1	2230	271	.00	.00	.00	0.
1	1005	122	.00	.00	.00	0.	*	1	2235	272	.00	.00	.00	0.
1	1010	123	.00	.00	.00	0.	*	1	2240	273	.00	.00	.00	0.
1	1015	124	.00	.00	.00	0.	*	1	2245	274	.00	.00	.00	0.
1	1020	125	.00	.00	.00	0.	*	1	2250	275	.00	.00	.00	0.
1	1025	126	.00	.00	.00	0.	*	1	2255	276	.00	.00	.00	0.
1	1030	127	.00	.00	.00	0.	*	1	2300	277	.00	.00	.00	0.
1	1035	128	.00	.00	.00	0.	*	1	2305	278	.00	.00	.00	0.
1	1040	129	.00	.00	.00	0.	*	1	2310	279	.00	.00	.00	0.
1	1045	130	.00	.00	.00	0.	*	1	2315	280	.00	.00	.00	0.
1	1050	131	.00	.00	.00	0.	*	1	2320	281	.00	.00	.00	0.
1	1055	132	.00	.00	.00	0.	*	1	2325	282	.00	.00	.00	0.
1	1100	133	.00	.00	.00	0.	*	1	2330	283	.00	.00	.00	0.
1	1105	134	.00	.00	.00	0.	*	1	2335	284	.00	.00	.00	0.
1	1110	135	.00	.00	.00	0.	*	1	2340	285	.00	.00	.00	0.
1	1115	136	.00	.00	.00	0.	*	1	2345	286	.00	.00	.00	0.
1	1120	137	.00	.00	.00	0.	*	1	2350	287	.00	.00	.00	0.
1	1125	138	.00	.00	.00	0.	*	1	2355	288	.00	.00	.00	0.
1	1130	139	.00	.00	.00	0.	*	2	0000	289	.00	.00	.00	0.
1	1135	140	.00	.00	.00	0.	*	2	0005	290	.00	.00	.00	0.
1	1140	141	.00	.00	.00	0.	*	2	0010	291	.00	.00	.00	0.
1	1145	142	.00	.00	.00	0.	*	2	0015	292	.00	.00	.00	0.
1	1150	143	.00	.00	.00	0.	*	2	0020	293	.00	.00	.00	0.
1	1155	144	.00	.00	.00	0.	*	2	0025	294	.00	.00	.00	0.
1	1200	145	.00	.00	.00	0.	*	2	0030	295	.00	.00	.00	0.
1	1205	146	.00	.00	.00	0.	*	2	0035	296	.00	.00	.00	0.
1	1210	147	.00	.00	.00	0.	*	2	0040	297	.00	.00	.00	0.
1	1215	148	.00	.00	.00	0.	*	2	0045	298	.00	.00	.00	0.
1	1220	149	.00	.00	.00	0.	*	2	0050	299	.00	.00	.00	0.
1	1225	150	.00	.00	.00	0.	*	2	0055	300	.00	.00	.00	0.
							*							

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TOTAL RAINFALL = 1.19, TOTAL LOSS = .81, TOTAL EXCESS = .38

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)					
		(CFS)				
5.	4.42		2.	0.	0.	0.
		(INCHES)	.361	.375	.375	.375
		(AC-FT)	1.	1.	1.	1.

CUMULATIVE AREA = .04 SQ MI

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          **************
          *            *
 45 KK    *   Node7    *
          *            *
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                    Route flow through basin to remove developed area storage

52 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          2  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL         0.  HYDROGRAPH PLOT SCALE

             HYDROGRAPH ROUTING DATA

47 RS          STORAGE ROUTING
                     NSTPS          1  NUMBER OF SUBREACHES
                      ITYP       STOR  TYPE OF INITIAL CONDITION
                    RSVRIC        .00  INITIAL CONDITION
                         X        .00 WORKING R AND D COEFFICIENT

48 SV            STORAGE        .0      2.1      2.2      2.2      2.2      2.2      2.2      2.2      2.3      2.5
                               2.8

50 SQ           DISCHARGE       0.       0.      20.      30.      40.      50.      60.      70.     100.     150.
                              200.

                                                         ***

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN        0. TO      100.
                THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
                THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

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                                        HYDROGRAPH AT STATION   Node7

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DA	MON	HRMN	ORD	OUTFLOW	STORAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE
1		0000	1	0.	.00	*	1		0820	101	0.	.80	*	1		1640	201	0.	.80
1		0005	2	0.	.00	*	1		0825	102	0.	.80	*	1		1645	202	0.	.80
1		0010	3	0.	.00	*	1		0830	103	0.	.80	*	1		1650	203	0.	.80
1		0015	4	0.	.00	*	1		0835	104	0.	.80	*	1		1655	204	0.	.80
1		0020	5	0.	.00	*	1		0840	105	0.	.80	*	1		1700	205	0.	.80
1		0025	6	0.	.00	*	1		0845	106	0.	.80	*	1		1705	206	0.	.80
1		0030	7	0.	.00	*	1		0850	107	0.	.80	*	1		1710	207	0.	.80
1		0035	8	0.	.00	*	1		0855	108	0.	.80	*	1		1715	208	0.	.80
1		0040	9	0.	.00	*	1		0900	109	0.	.80	*	1		1720	209	0.	.80
1		0045	10	0.	.00	*	1		0905	110	0.	.80	*	1		1725	210	0.	.80
1		0050	11	0.	.00	*	1		0910	111	0.	.80	*	1		1730	211	0.	.80
1		0055	12	0.	.00	*	1		0915	112	0.	.80	*	1		1735	212	0.	.80
1		0100	13	0.	.01	*	1		0920	113	0.	.80	*	1		1740	213	0.	.80
1		0105	14	0.	.01	*	1		0925	114	0.	.80	*	1		1745	214	0.	.80
1		0110	15	0.	.01	*	1		0930	115	0.	.80	*	1		1750	215	0.	.80
1		0115	16	0.	.01	*	1		0935	116	0.	.80	*	1		1755	216	0.	.80
1		0120	17	0.	.01	*	1		0940	117	0.	.80	*	1		1800	217	0.	.80
1		0125	18	0.	.01	*	1		0945	118	0.	.80	*	1		1805	218	0.	.80
1		0130	19	0.	.01	*	1		0950	119	0.	.80	*	1		1810	219	0.	.80
1		0135	20	0.	.02	*	1		0955	120	0.	.80	*	1		1815	220	0.	.80
1		0140	21	0.	.02	*	1		1000	121	0.	.80	*	1		1820	221	0.	.80
1		0145	22	0.	.02	*	1		1005	122	0.	.80	*	1		1825	222	0.	.80

1	0150	23	0.	.02	*	1	1010	123	0.	.80	*	1	1830	223	0.	.80
1	0155	24	0.	.02	*	1	1015	124	0.	.80	*	1	1835	224	0.	.80
1	0200	25	0.	.02	*	1	1020	125	0.	.80	*	1	1840	225	0.	.80
1	0205	26	0.	.03	*	1	1025	126	0.	.80	*	1	1845	226	0.	.80
1	0210	27	0.	.03	*	1	1030	127	0.	.80	*	1	1850	227	0.	.80
1	0215	28	0.	.03	*	1	1035	128	0.	.80	*	1	1855	228	0.	.80
1	0220	29	0.	.03	*	1	1040	129	0.	.80	*	1	1900	229	0.	.80
1	0225	30	0.	.03	*	1	1045	130	0.	.80	*	1	1905	230	0.	.80
1	0230	31	0.	.03	*	1	1050	131	0.	.80	*	1	1910	231	0.	.80
1	0235	32	0.	.04	*	1	1055	132	0.	.80	*	1	1915	232	0.	.80
1	0240	33	0.	.04	*	1	1100	133	0.	.80	*	1	1920	233	0.	.80
1	0245	34	0.	.04	*	1	1105	134	0.	.80	*	1	1925	234	0.	.80
1	0250	35	0.	.04	*	1	1110	135	0.	.80	*	1	1930	235	0.	.80
1	0255	36	0.	.05	*	1	1115	136	0.	.80	*	1	1935	236	0.	.80
1	0300	37	0.	.05	*	1	1120	137	0.	.80	*	1	1940	237	0.	.80
1	0305	38	0.	.05	*	1	1125	138	0.	.80	*	1	1945	238	0.	.80
1	0310	39	0.	.05	*	1	1130	139	0.	.80	*	1	1950	239	0.	.80
1	0315	40	0.	.06	*	1	1135	140	0.	.80	*	1	1955	240	0.	.80
1	0320	41	0.	.06	*	1	1140	141	0.	.80	*	1	2000	241	0.	.80
1	0325	42	0.	.06	*	1	1145	142	0.	.80	*	1	2005	242	0.	.80
1	0330	43	0.	.07	*	1	1150	143	0.	.80	*	1	2010	243	0.	.80
1	0335	44	0.	.07	*	1	1155	144	0.	.80	*	1	2015	244	0.	.80
1	0340	45	0.	.08	*	1	1200	145	0.	.80	*	1	2020	245	0.	.80
1	0345	46	0.	.08	*	1	1205	146	0.	.80	*	1	2025	246	0.	.80
1	0350	47	0.	.09	*	1	1210	147	0.	.80	*	1	2030	247	0.	.80
1	0355	48	0.	.10	*	1	1215	148	0.	.80	*	1	2035	248	0.	.80
1	0400	49	0.	.12	*	1	1220	149	0.	.80	*	1	2040	249	0.	.80
1	0405	50	0.	.14	*	1	1225	150	0.	.80	*	1	2045	250	0.	.80
1	0410	51	0.	.16	*	1	1230	151	0.	.80	*	1	2050	251	0.	.80
1	0415	52	0.	.19	*	1	1235	152	0.	.80	*	1	2055	252	0.	.80
1	0420	53	0.	.23	*	1	1240	153	0.	.80	*	1	2100	253	0.	.80
1	0425	54	0.	.26	*	1	1245	154	0.	.80	*	1	2105	254	0.	.80
1	0430	55	0.	.30	*	1	1250	155	0.	.80	*	1	2110	255	0.	.80
1	0435	56	0.	.33	*	1	1255	156	0.	.80	*	1	2115	256	0.	.80
1	0440	57	0.	.37	*	1	1300	157	0.	.80	*	1	2120	257	0.	.80
1	0445	58	0.	.40	*	1	1305	158	0.	.80	*	1	2125	258	0.	.80
1	0450	59	0.	.43	*	1	1310	159	0.	.80	*	1	2130	259	0.	.80
1	0455	60	0.	.46	*	1	1315	160	0.	.80	*	1	2135	260	0.	.80
1	0500	61	0.	.49	*	1	1320	161	0.	.80	*	1	2140	261	0.	.80
1	0505	62	0.	.51	*	1	1325	162	0.	.80	*	1	2145	262	0.	.80
1	0510	63	0.	.53	*	1	1330	163	0.	.80	*	1	2150	263	0.	.80
1	0515	64	0.	.56	*	1	1335	164	0.	.80	*	1	2155	264	0.	.80
1	0520	65	0.	.57	*	1	1340	165	0.	.80	*	1	2200	265	0.	.80
1	0525	66	0.	.59	*	1	1345	166	0.	.80	*	1	2205	266	0.	.80
1	0530	67	0.	.61	*	1	1350	167	0.	.80	*	1	2210	267	0.	.80
1	0535	68	0.	.62	*	1	1355	168	0.	.80	*	1	2215	268	0.	.80
1	0540	69	0.	.64	*	1	1400	169	0.	.80	*	1	2220	269	0.	.80
1	0545	70	0.	.65	*	1	1405	170	0.	.80	*	1	2225	270	0.	.80
1	0550	71	0.	.66	*	1	1410	171	0.	.80	*	1	2230	271	0.	.80
1	0555	72	0.	.68	*	1	1415	172	0.	.80	*	1	2235	272	0.	.80
1	0600	73	0.	.69	*	1	1420	173	0.	.80	*	1	2240	273	0.	.80
1	0605	74	0.	.70	*	1	1425	174	0.	.80	*	1	2245	274	0.	.80
1	0610	75	0.	.71	*	1	1430	175	0.	.80	*	1	2250	275	0.	.80
1	0615	76	0.	.71	*	1	1435	176	0.	.80	*	1	2255	276	0.	.80
1	0620	77	0.	.72	*	1	1440	177	0.	.80	*	1	2300	277	0.	.80
1	0625	78	0.	.73	*	1	1445	178	0.	.80	*	1	2305	278	0.	.80
1	0630	79	0.	.74	*	1	1450	179	0.	.80	*	1	2310	279	0.	.80
1	0635	80	0.	.74	*	1	1455	180	0.	.80	*	1	2315	280	0.	.80

1	0640	81	0.	.75	*	1	1500	181	0.	.80	*	1	2320	281	0.	.80
1	0645	82	0.	.75	*	1	1505	182	0.	.80	*	1	2325	282	0.	.80
1	0650	83	0.	.76	*	1	1510	183	0.	.80	*	1	2330	283	0.	.80
1	0655	84	0.	.76	*	1	1515	184	0.	.80	*	1	2335	284	0.	.80
1	0700	85	0.	.77	*	1	1520	185	0.	.80	*	1	2340	285	0.	.80
1	0705	86	0.	.77	*	1	1525	186	0.	.80	*	1	2345	286	0.	.80
1	0710	87	0.	.77	*	1	1530	187	0.	.80	*	1	2350	287	0.	.80
1	0715	88	0.	.78	*	1	1535	188	0.	.80	*	1	2355	288	0.	.80
1	0720	89	0.	.78	*	1	1540	189	0.	.80	*	2	0000	289	0.	.80
1	0725	90	0.	.78	*	1	1545	190	0.	.80	*	2	0005	290	0.	.80
1	0730	91	0.	.78	*	1	1550	191	0.	.80	*	2	0010	291	0.	.80
1	0735	92	0.	.78	*	1	1555	192	0.	.80	*	2	0015	292	0.	.80
1	0740	93	0.	.79	*	1	1600	193	0.	.80	*	2	0020	293	0.	.80
1	0745	94	0.	.79	*	1	1605	194	0.	.80	*	2	0025	294	0.	.80
1	0750	95	0.	.79	*	1	1610	195	0.	.80	*	2	0030	295	0.	.80
1	0755	96	0.	.79	*	1	1615	196	0.	.80	*	2	0035	296	0.	.80
1	0800	97	0.	.79	*	1	1620	197	0.	.80	*	2	0040	297	0.	.80
1	0805	98	0.	.79	*	1	1625	198	0.	.80	*	2	0045	298	0.	.80
1	0810	99	0.	.79	*	1	1630	199	0.	.80	*	2	0050	299	0.	.80
1	0815	100	0.	.79	*	1	1635	200	0.	.80	*	2	0055	300	0.	.80
					*						*					

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)					
		(CFS)				
0.	.08		0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

PEAK STORAGE	TIME		MAXIMUM AVERAGE STORAGE			
			6-HR	24-HR	72-HR	24.92-HR
(AC-FT)	(HR)					
1.	9.42		1.	1.	1.	1.

CUMULATIVE AREA = .04 SQ MI

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          *            *
 53 KK    *   Node11   *
          *            *
          **************
                    conflunce g1 and g2

 56 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

 55 HC          HYDROGRAPH COMBINATION
                      ICOMP          2  NUMBER OF HYDROGRAPHS TO COMBINE
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HYDROGRAPH AT STATION Node11
SUM OF 2 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	4.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	3.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	3.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	3.	1		1245	154	0.	1		1900	229	0.
1		0020	5	0.	1		0635	80	3.	1		1250	155	0.	1		1905	230	0.
1		0025	6	0.	1		0640	81	2.	1		1255	156	0.	1		1910	231	0.
1		0030	7	0.	1		0645	82	2.	1		1300	157	0.	1		1915	232	0.
1		0035	8	0.	1		0650	83	2.	1		1305	158	0.	1		1920	233	0.
1		0040	9	0.	1		0655	84	2.	1		1310	159	0.	1		1925	234	0.
1		0045	10	0.	1		0700	85	1.	1		1315	160	0.	1		1930	235	0.
1		0050	11	0.	1		0705	86	1.	1		1320	161	0.	1		1935	236	0.
1		0055	12	0.	1		0710	87	1.	1		1325	162	0.	1		1940	237	0.
1		0100	13	0.	1		0715	88	1.	1		1330	163	0.	1		1945	238	0.
1		0105	14	0.	1		0720	89	1.	1		1335	164	0.	1		1950	239	0.
1		0110	15	0.	1		0725	90	1.	1		1340	165	0.	1		1955	240	0.
1		0115	16	0.	1		0730	91	1.	1		1345	166	0.	1		2000	241	0.
1		0120	17	0.	1		0735	92	1.	1		1350	167	0.	1		2005	242	0.
1		0125	18	1.	1		0740	93	1.	1		1355	168	0.	1		2010	243	0.
1		0130	19	1.	1		0745	94	0.	1		1400	169	0.	1		2015	244	0.
1		0135	20	1.	1		0750	95	0.	1		1405	170	0.	1		2020	245	0.
1		0140	21	1.	1		0755	96	0.	1		1410	171	0.	1		2025	246	0.
1		0145	22	1.	1		0800	97	0.	1		1415	172	0.	1		2030	247	0.
1		0150	23	1.	1		0805	98	0.	1		1420	173	0.	1		2035	248	0.
1		0155	24	1.	1		0810	99	0.	1		1425	174	0.	1		2040	249	0.
1		0200	25	1.	1		0815	100	0.	1		1430	175	0.	1		2045	250	0.
1		0205	26	1.	1		0820	101	0.	1		1435	176	0.	1		2050	251	0.
1		0210	27	1.	1		0825	102	0.	1		1440	177	0.	1		2055	252	0.
1		0215	28	1.	1		0830	103	0.	1		1445	178	0.	1		2100	253	0.
1		0220	29	1.	1		0835	104	0.	1		1450	179	0.	1		2105	254	0.
1		0225	30	1.	1		0840	105	0.	1		1455	180	0.	1		2110	255	0.
1		0230	31	1.	1		0845	106	0.	1		1500	181	0.	1		2115	256	0.
1		0235	32	1.	1		0850	107	0.	1		1505	182	0.	1		2120	257	0.
1		0240	33	1.	1		0855	108	0.	1		1510	183	0.	1		2125	258	0.
1		0245	34	1.	1		0900	109	0.	1		1515	184	0.	1		2130	259	0.
1		0250	35	1.	1		0905	110	0.	1		1520	185	0.	1		2135	260	0.
1		0255	36	1.	1		0910	111	0.	1		1525	186	0.	1		2140	261	0.
1		0300	37	1.	1		0915	112	0.	1		1530	187	0.	1		2145	262	0.
1		0305	38	1.	1		0920	113	0.	1		1535	188	0.	1		2150	263	0.
1		0310	39	1.	1		0925	114	0.	1		1540	189	0.	1		2155	264	0.
1		0315	40	1.	1		0930	115	0.	1		1545	190	0.	1		2200	265	0.
1		0320	41	1.	1		0935	116	0.	1		1550	191	0.	1		2205	266	0.
1		0325	42	1.	1		0940	117	0.	1		1555	192	0.	1		2210	267	0.
1		0330	43	1.	1		0945	118	0.	1		1600	193	0.	1		2215	268	0.
1		0335	44	1.	1		0950	119	0.	1		1605	194	0.	1		2220	269	0.
1		0340	45	2.	1		0955	120	0.	1		1610	195	0.	1		2225	270	0.
1		0345	46	2.	1		1000	121	0.	1		1615	196	0.	1		2230	271	0.

1	0350	47	2.	*	1	1005	122	0.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	3.	*	1	1010	123	0.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	4.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	5.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	7.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	10.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	13.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	16.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	18.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	18.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	18.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	18.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	17.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	16.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	15.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	14.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	12.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	11.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	10.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	9.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	8.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	7.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	7.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	6.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	6.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	5.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	5.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	4.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	4.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

****

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)					
		(CFS)				
18.	4.58		5.	1.	1.	1.
		(INCHES)	.098	.100	.100	.100
		(AC-FT)	2.	2.	2.	2.

CUMULATIVE AREA = .45 SQ MI

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          **************
          *            *
57 KK     *   Node10   *
          *            *
          **************
```

Route water from culverts to middle of subdivision

63 KO *OUTPUT CONTROL VARIABLES*

IPRNT 2 PRINT CONTROL

IPLOT 0 PLOT CONTROL

```
                    QSCAL          0.  HYDROGRAPH PLOT SCALE

            HYDROGRAPH ROUTING DATA

 59 RS        STORAGE ROUTING
                    NSTPS          1  NUMBER OF SUBREACHES
                     ITYP       STOR  TYPE OF INITIAL CONDITION
                   RSVRIC        .00  INITIAL CONDITION
                        X        .00 WORKING R AND D COEFFICIENT

 60 RC        NORMAL DEPTH CHANNEL
                      ANL       .035  LEFT OVERBANK N-VALUE
                     ANCH       .035  MAIN CHANNEL N-VALUE
                      ANR       .035  RIGHT OVERBANK N-VALUE
                    RLNTH       650.  REACH LENGTH
                      SEL      .0022  ENERGY SLOPE
                    ELMAX       15.0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                   CROSS-SECTION DATA
                        --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
 62 RY      ELEVATION    15.00    11.00    10.00     5.85     5.85    10.00    11.00    15.00
 61 RX      DISTANCE       .00    20.00   120.00   136.60   146.60   162.20   262.20   282.20

                                                  ***

                                   COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

          STORAGE      .00      .09      .20      .34      .50      .69      .91     1.16     1.43     1.78
          OUTFLOW      .00     6.32    21.74    46.35    81.01   126.67   184.32   254.90   339.36   449.06
        ELEVATION     5.85     6.33     6.81     7.29     7.78     8.26     8.74     9.22     9.70    10.18

          STORAGE     2.70     4.27     6.04     7.84     9.68    11.55    13.46    15.40    17.38    19.39
          OUTFLOW   628.29   931.10  1390.33  1963.47  2640.18  3413.96  4280.30  5235.91  6278.27  7405.46
        ELEVATION    10.67    11.15    11.63    12.11    12.59    13.07    13.56    14.04    14.52    15.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN      255. TO     7405.
                THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
                THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

*****************************************************************************************************************

                                   HYDROGRAPH AT STATION   Node10

*****************************************************************************************************************
                                        *                                        *
 DA MON HRMN ORD  OUTFLOW  STORAGE   STAGE * DA MON HRMN ORD  OUTFLOW  STORAGE   STAGE * DA MON HRMN ORD  OUTFLOW  STORAGE   STAGE
                                        *                                        *
  1     0000   1      0.       .0     5.8 *  1     0820 101      0.       .0     5.9 *  1     1640 201      0.       .0     5.8
  1     0005   2      0.       .0     5.9 *  1     0825 102      0.       .0     5.9 *  1     1645 202      0.       .0     5.8
  1     0010   3      0.       .0     5.9 *  1     0830 103      0.       .0     5.9 *  1     1650 203      0.       .0     5.8
  1     0015   4      0.       .0     5.9 *  1     0835 104      0.       .0     5.9 *  1     1655 204      0.       .0     5.8
  1     0020   5      0.       .0     5.9 *  1     0840 105      0.       .0     5.9 *  1     1700 205      0.       .0     5.8
  1     0025   6      0.       .0     5.9 *  1     0845 106      0.       .0     5.9 *  1     1705 206      0.       .0     5.8
  1     0030   7      0.       .0     5.9 *  1     0850 107      0.       .0     5.9 *  1     1710 207      0.       .0     5.8
  1     0035   8      0.       .0     5.9 *  1     0855 108      0.       .0     5.9 *  1     1715 208      0.       .0     5.8
  1     0040   9      0.       .0     5.9 *  1     0900 109      0.       .0     5.9 *  1     1720 209      0.       .0     5.8
  1     0045  10      0.       .0     5.9 *  1     0905 110      0.       .0     5.9 *  1     1725 210      0.       .0     5.8
```

1	0050	11	0.	.0	5.9	*	1	0910	111	0.	.0	5.9	*	1	1730	211	0.	.0	5.8
1	0055	12	0.	.0	5.9	*	1	0915	112	0.	.0	5.9	*	1	1735	212	0.	.0	5.8
1	0100	13	0.	.0	5.9	*	1	0920	113	0.	.0	5.9	*	1	1740	213	0.	.0	5.8
1	0105	14	0.	.0	5.9	*	1	0925	114	0.	.0	5.9	*	1	1745	214	0.	.0	5.8
1	0110	15	0.	.0	5.9	*	1	0930	115	0.	.0	5.9	*	1	1750	215	0.	.0	5.8
1	0115	16	0.	.0	5.9	*	1	0935	116	0.	.0	5.9	*	1	1755	216	0.	.0	5.8
1	0120	17	0.	.0	5.9	*	1	0940	117	0.	.0	5.9	*	1	1800	217	0.	.0	5.8
1	0125	18	0.	.0	5.9	*	1	0945	118	0.	.0	5.9	*	1	1805	218	0.	.0	5.8
1	0130	19	0.	.0	5.9	*	1	0950	119	0.	.0	5.9	*	1	1810	219	0.	.0	5.8
1	0135	20	0.	.0	5.9	*	1	0955	120	0.	.0	5.9	*	1	1815	220	0.	.0	5.8
1	0140	21	1.	.0	5.9	*	1	1000	121	0.	.0	5.9	*	1	1820	221	0.	.0	5.8
1	0145	22	1.	.0	5.9	*	1	1005	122	0.	.0	5.9	*	1	1825	222	0.	.0	5.8
1	0150	23	1.	.0	5.9	*	1	1010	123	0.	.0	5.9	*	1	1830	223	0.	.0	5.8
1	0155	24	1.	.0	5.9	*	1	1015	124	0.	.0	5.9	*	1	1835	224	0.	.0	5.8
1	0200	25	1.	.0	5.9	*	1	1020	125	0.	.0	5.9	*	1	1840	225	0.	.0	5.8
1	0205	26	1.	.0	5.9	*	1	1025	126	0.	.0	5.9	*	1	1845	226	0.	.0	5.8
1	0210	27	1.	.0	5.9	*	1	1030	127	0.	.0	5.9	*	1	1850	227	0.	.0	5.8
1	0215	28	1.	.0	5.9	*	1	1035	128	0.	.0	5.9	*	1	1855	228	0.	.0	5.8
1	0220	29	1.	.0	5.9	*	1	1040	129	0.	.0	5.9	*	1	1900	229	0.	.0	5.8
1	0225	30	1.	.0	5.9	*	1	1045	130	0.	.0	5.9	*	1	1905	230	0.	.0	5.8
1	0230	31	1.	.0	5.9	*	1	1050	131	0.	.0	5.9	*	1	1910	231	0.	.0	5.8
1	0235	32	1.	.0	5.9	*	1	1055	132	0.	.0	5.9	*	1	1915	232	0.	.0	5.8
1	0240	33	1.	.0	5.9	*	1	1100	133	0.	.0	5.9	*	1	1920	233	0.	.0	5.8
1	0245	34	1.	.0	5.9	*	1	1105	134	0.	.0	5.9	*	1	1925	234	0.	.0	5.8
1	0250	35	1.	.0	5.9	*	1	1110	135	0.	.0	5.9	*	1	1930	235	0.	.0	5.8
1	0255	36	1.	.0	5.9	*	1	1115	136	0.	.0	5.9	*	1	1935	236	0.	.0	5.8
1	0300	37	1.	.0	5.9	*	1	1120	137	0.	.0	5.9	*	1	1940	237	0.	.0	5.8
1	0305	38	1.	.0	5.9	*	1	1125	138	0.	.0	5.9	*	1	1945	238	0.	.0	5.8
1	0310	39	1.	.0	5.9	*	1	1130	139	0.	.0	5.9	*	1	1950	239	0.	.0	5.8
1	0315	40	1.	.0	5.9	*	1	1135	140	0.	.0	5.8	*	1	1955	240	0.	.0	5.8
1	0320	41	1.	.0	5.9	*	1	1140	141	0.	.0	5.8	*	1	2000	241	0.	.0	5.8
1	0325	42	1.	.0	5.9	*	1	1145	142	0.	.0	5.8	*	1	2005	242	0.	.0	5.8
1	0330	43	1.	.0	5.9	*	1	1150	143	0.	.0	5.8	*	1	2010	243	0.	.0	5.8
1	0335	44	1.	.0	5.9	*	1	1155	144	0.	.0	5.8	*	1	2015	244	0.	.0	5.8
1	0340	45	1.	.0	5.9	*	1	1200	145	0.	.0	5.8	*	1	2020	245	0.	.0	5.8
1	0345	46	1.	.0	6.0	*	1	1205	146	0.	.0	5.8	*	1	2025	246	0.	.0	5.8
1	0350	47	2.	.0	6.0	*	1	1210	147	0.	.0	5.8	*	1	2030	247	0.	.0	5.8
1	0355	48	2.	.0	6.0	*	1	1215	148	0.	.0	5.8	*	1	2035	248	0.	.0	5.8
1	0400	49	3.	.0	6.1	*	1	1220	149	0.	.0	5.8	*	1	2040	249	0.	.0	5.8
1	0405	50	3.	.0	6.1	*	1	1225	150	0.	.0	5.8	*	1	2045	250	0.	.0	5.8
1	0410	51	4.	.1	6.2	*	1	1230	151	0.	.0	5.8	*	1	2050	251	0.	.0	5.8
1	0415	52	6.	.1	6.3	*	1	1235	152	0.	.0	5.8	*	1	2055	252	0.	.0	5.8
1	0420	53	10.	.1	6.4	*	1	1240	153	0.	.0	5.8	*	1	2100	253	0.	.0	5.8
1	0425	54	13.	.1	6.5	*	1	1245	154	0.	.0	5.8	*	1	2105	254	0.	.0	5.8
1	0430	55	15.	.2	6.6	*	1	1250	155	0.	.0	5.8	*	1	2110	255	0.	.0	5.8
1	0435	56	17.	.2	6.7	*	1	1255	156	0.	.0	5.8	*	1	2115	256	0.	.0	5.8
1	0440	57	18.	.2	6.7	*	1	1300	157	0.	.0	5.8	*	1	2120	257	0.	.0	5.8
1	0445	58	18.	.2	6.7	*	1	1305	158	0.	.0	5.8	*	1	2125	258	0.	.0	5.8
1	0450	59	17.	.2	6.7	*	1	1310	159	0.	.0	5.8	*	1	2130	259	0.	.0	5.8
1	0455	60	17.	.2	6.7	*	1	1315	160	0.	.0	5.8	*	1	2135	260	0.	.0	5.8
1	0500	61	16.	.2	6.6	*	1	1320	161	0.	.0	5.8	*	1	2140	261	0.	.0	5.8
1	0505	62	15.	.1	6.6	*	1	1325	162	0.	.0	5.8	*	1	2145	262	0.	.0	5.8
1	0510	63	14.	.1	6.6	*	1	1330	163	0.	.0	5.8	*	1	2150	263	0.	.0	5.8
1	0515	64	12.	.1	6.5	*	1	1335	164	0.	.0	5.8	*	1	2155	264	0.	.0	5.8
1	0520	65	11.	.1	6.5	*	1	1340	165	0.	.0	5.8	*	1	2200	265	0.	.0	5.8
1	0525	66	10.	.1	6.5	*	1	1345	166	0.	.0	5.8	*	1	2205	266	0.	.0	5.8
1	0530	67	9.	.1	6.4	*	1	1350	167	0.	.0	5.8	*	1	2210	267	0.	.0	5.8
1	0535	68	8.	.1	6.4	*	1	1355	168	0.	.0	5.8	*	1	2215	268	0.	.0	5.8

1	0540	69	8.	.1	6.4	*	1	1400	169	0.	.0	5.8	*	1	2220	269	0.	.0	5.8
1	0545	70	7.	.1	6.3	*	1	1405	170	0.	.0	5.8	*	1	2225	270	0.	.0	5.8
1	0550	71	6.	.1	6.3	*	1	1410	171	0.	.0	5.8	*	1	2230	271	0.	.0	5.8
1	0555	72	6.	.1	6.3	*	1	1415	172	0.	.0	5.8	*	1	2235	272	0.	.0	5.8
1	0600	73	6.	.1	6.3	*	1	1420	173	0.	.0	5.8	*	1	2240	273	0.	.0	5.8
1	0605	74	5.	.1	6.2	*	1	1425	174	0.	.0	5.8	*	1	2245	274	0.	.0	5.8
1	0610	75	5.	.1	6.2	*	1	1430	175	0.	.0	5.8	*	1	2250	275	0.	.0	5.8
1	0615	76	4.	.1	6.2	*	1	1435	176	0.	.0	5.8	*	1	2255	276	0.	.0	5.8
1	0620	77	4.	.1	6.2	*	1	1440	177	0.	.0	5.8	*	1	2300	277	0.	.0	5.8
1	0625	78	4.	.1	6.1	*	1	1445	178	0.	.0	5.8	*	1	2305	278	0.	.0	5.8
1	0630	79	3.	.0	6.1	*	1	1450	179	0.	.0	5.8	*	1	2310	279	0.	.0	5.8
1	0635	80	3.	.0	6.1	*	1	1455	180	0.	.0	5.8	*	1	2315	280	0.	.0	5.8
1	0640	81	3.	.0	6.1	*	1	1500	181	0.	.0	5.8	*	1	2320	281	0.	.0	5.8
1	0645	82	3.	.0	6.0	*	1	1505	182	0.	.0	5.8	*	1	2325	282	0.	.0	5.8
1	0650	83	2.	.0	6.0	*	1	1510	183	0.	.0	5.8	*	1	2330	283	0.	.0	5.8
1	0655	84	2.	.0	6.0	*	1	1515	184	0.	.0	5.8	*	1	2335	284	0.	.0	5.8
1	0700	85	2.	.0	6.0	*	1	1520	185	0.	.0	5.8	*	1	2340	285	0.	.0	5.8
1	0705	86	2.	.0	6.0	*	1	1525	186	0.	.0	5.8	*	1	2345	286	0.	.0	5.8
1	0710	87	1.	.0	6.0	*	1	1530	187	0.	.0	5.8	*	1	2350	287	0.	.0	5.8
1	0715	88	1.	.0	6.0	*	1	1535	188	0.	.0	5.8	*	1	2355	288	0.	.0	5.8
1	0720	89	1.	.0	5.9	*	1	1540	189	0.	.0	5.8	*	2	0000	289	0.	.0	5.8
1	0725	90	1.	.0	5.9	*	1	1545	190	0.	.0	5.8	*	2	0005	290	0.	.0	5.8
1	0730	91	1.	.0	5.9	*	1	1550	191	0.	.0	5.8	*	2	0010	291	0.	.0	5.8
1	0735	92	1.	.0	5.9	*	1	1555	192	0.	.0	5.8	*	2	0015	292	0.	.0	5.8
1	0740	93	1.	.0	5.9	*	1	1600	193	0.	.0	5.8	*	2	0020	293	0.	.0	5.8
1	0745	94	1.	.0	5.9	*	1	1605	194	0.	.0	5.8	*	2	0025	294	0.	.0	5.8
1	0750	95	1.	.0	5.9	*	1	1610	195	0.	.0	5.8	*	2	0030	295	0.	.0	5.8
1	0755	96	1.	.0	5.9	*	1	1615	196	0.	.0	5.8	*	2	0035	296	0.	.0	5.8
1	0800	97	0.	.0	5.9	*	1	1620	197	0.	.0	5.8	*	2	0040	297	0.	.0	5.8
1	0805	98	0.	.0	5.9	*	1	1625	198	0.	.0	5.8	*	2	0045	298	0.	.0	5.8
1	0810	99	0.	.0	5.9	*	1	1630	199	0.	.0	5.8	*	2	0050	299	0.	.0	5.8
1	0815	100	0.	.0	5.9	*	1	1635	200	0.	.0	5.8	*	2	0055	300	0.	.0	5.8
						*							*						

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
18.	4.75		5.	1.	1.	1.
		(INCHES)	.098	.100	.100	.100
		(AC-FT)	2.	2.	2.	2.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
0.	4.67	0.	0.	0.	0.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
6.69	4.75	6.14	5.92	5.92	5.92

CUMULATIVE AREA = .45 SQ MI

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*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

          **************
          *            *
64 KK     *   DEVELO   *     PE RAINFALL FOR G3
          *            *
          **************
                        6-HOUR RAINFALL PATTERN NO. 1.23 WAS USED TO FIND TC & R FOR THIS BASIN
                        THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .990
                       L =  .30  Kb = .072  Adj. Slope =   60.9

74 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          2  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL         0.  HYDROGRAPH PLOT SCALE

             SUBBASIN RUNOFF DATA

68 BA          SUBBASIN CHARACTERISTICS
                     TAREA        .01  SUBBASIN AREA

               PRECIPITATION DATA

69 PB                STORM       1.19  BASIN TOTAL PRECIPITATION

11 PI            INCREMENTAL PRECIPITATION PATTERN
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00       .00       .01       .01       .01       .01       .01       .01       .03
                     .03       .03       .06       .06       .06       .14       .14       .14       .03       .03
                     .03       .01       .01       .01       .01       .01       .01       .00       .00       .00
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00

70 LG          GREEN AND AMPT LOSS RATE
                     STRTL        .43  STARTING LOSS
                       DTH        .25  MOISTURE DEFICIT
                      PSIF       3.50  WETTING FRONT SUCTION
                     XKSAT        .51  HYDRAULIC CONDUCTIVITY
                     RTIMP      30.00  PERCENT IMPERVIOUS AREA

71 UC          CLARK UNITGRAPH
                        TC        .64  TIME OF CONCENTRATION
                         R       1.19  STORAGE COEFFICIENT

72 UA          ACCUMULATED-AREA VS. TIME,  11 ORDINATES
                      .0       5.0      16.0      30.0      65.0      77.0      84.0      90.0      94.0      97.0
                   100.0

                                                   ***

                                          UNIT HYDROGRAPH PARAMETERS
                                     CLARK   TC=   .64 HR,       R=  1.19 HR
                                    SNYDER   TP=   .50 HR,      CP=   .31

                                          UNIT HYDROGRAPH
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79 END-OF-PERIOD ORDINATES

0.	1.	2.	3.	4.	4.	4.	4.	4.	3.
3.	3.	3.	3.	2.	2.	2.	2.	2.	2.
2.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	

****

HYDROGRAPH AT STATION DEVELO

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1		0000	1	.00	.00	.00	0.	*	1		1230	151	.00	.00	.00	0.
1		0005	2	.00	.00	.00	0.	*	1		1235	152	.00	.00	.00	0.
1		0010	3	.00	.00	.00	0.	*	1		1240	153	.00	.00	.00	0.
1		0015	4	.00	.00	.00	0.	*	1		1245	154	.00	.00	.00	0.
1		0020	5	.00	.00	.00	0.	*	1		1250	155	.00	.00	.00	0.
1		0025	6	.00	.00	.00	0.	*	1		1255	156	.00	.00	.00	0.
1		0030	7	.00	.00	.00	0.	*	1		1300	157	.00	.00	.00	0.
1		0035	8	.00	.00	.00	0.	*	1		1305	158	.00	.00	.00	0.
1		0040	9	.00	.00	.00	0.	*	1		1310	159	.00	.00	.00	0.
1		0045	10	.00	.00	.00	0.	*	1		1315	160	.00	.00	.00	0.
1		0050	11	.00	.00	.00	0.	*	1		1320	161	.00	.00	.00	0.
1		0055	12	.00	.00	.00	0.	*	1		1325	162	.00	.00	.00	0.
1		0100	13	.00	.00	.00	0.	*	1		1330	163	.00	.00	.00	0.
1		0105	14	.00	.00	.00	0.	*	1		1335	164	.00	.00	.00	0.
1		0110	15	.00	.00	.00	0.	*	1		1340	165	.00	.00	.00	0.
1		0115	16	.00	.00	.00	0.	*	1		1345	166	.00	.00	.00	0.
1		0120	17	.00	.00	.00	0.	*	1		1350	167	.00	.00	.00	0.
1		0125	18	.00	.00	.00	0.	*	1		1355	168	.00	.00	.00	0.
1		0130	19	.00	.00	.00	0.	*	1		1400	169	.00	.00	.00	0.
1		0135	20	.00	.00	.00	0.	*	1		1405	170	.00	.00	.00	0.
1		0140	21	.00	.00	.00	0.	*	1		1410	171	.00	.00	.00	0.
1		0145	22	.00	.00	.00	0.	*	1		1415	172	.00	.00	.00	0.
1		0150	23	.00	.00	.00	0.	*	1		1420	173	.00	.00	.00	0.
1		0155	24	.00	.00	.00	0.	*	1		1425	174	.00	.00	.00	0.
1		0200	25	.00	.00	.00	0.	*	1		1430	175	.00	.00	.00	0.
1		0205	26	.00	.00	.00	0.	*	1		1435	176	.00	.00	.00	0.
1		0210	27	.00	.00	.00	0.	*	1		1440	177	.00	.00	.00	0.
1		0215	28	.00	.00	.00	0.	*	1		1445	178	.00	.00	.00	0.
1		0220	29	.01	.00	.00	0.	*	1		1450	179	.00	.00	.00	0.
1		0225	30	.01	.00	.00	0.	*	1		1455	180	.00	.00	.00	0.
1		0230	31	.01	.00	.00	0.	*	1		1500	181	.00	.00	.00	0.
1		0235	32	.00	.00	.00	0.	*	1		1505	182	.00	.00	.00	0.
1		0240	33	.00	.00	.00	0.	*	1		1510	183	.00	.00	.00	0.
1		0245	34	.00	.00	.00	0.	*	1		1515	184	.00	.00	.00	0.
1		0250	35	.01	.01	.00	0.	*	1		1520	185	.00	.00	.00	0.
1		0255	36	.01	.01	.00	0.	*	1		1525	186	.00	.00	.00	0.
1		0300	37	.01	.01	.00	0.	*	1		1530	187	.00	.00	.00	0.
1		0305	38	.01	.01	.00	0.	*	1		1535	188	.00	.00	.00	0.
1		0310	39	.01	.01	.00	0.	*	1		1540	189	.00	.00	.00	0.
1		0315	40	.01	.01	.00	0.	*	1		1545	190	.00	.00	.00	0.

1	0320	41	.03	.02	.01	0.	*	1	1550	191	.00	.00	.00	0.
1	0325	42	.03	.02	.01	0.	*	1	1555	192	.00	.00	.00	0.
1	0330	43	.03	.02	.01	0.	*	1	1600	193	.00	.00	.00	0.
1	0335	44	.07	.05	.02	0.	*	1	1605	194	.00	.00	.00	0.
1	0340	45	.07	.05	.02	0.	*	1	1610	195	.00	.00	.00	0.
1	0345	46	.07	.05	.02	0.	*	1	1615	196	.00	.00	.00	0.
1	0350	47	.16	.11	.05	0.	*	1	1620	197	.00	.00	.00	0.
1	0355	48	.16	.11	.05	0.	*	1	1625	198	.00	.00	.00	0.
1	0400	49	.16	.09	.07	1.	*	1	1630	199	.00	.00	.00	0.
1	0405	50	.04	.03	.01	1.	*	1	1635	200	.00	.00	.00	0.
1	0410	51	.04	.03	.01	1.	*	1	1640	201	.00	.00	.00	0.
1	0415	52	.04	.03	.01	1.	*	1	1645	202	.00	.00	.00	0.
1	0420	53	.01	.01	.00	1.	*	1	1650	203	.00	.00	.00	0.
1	0425	54	.01	.01	.00	1.	*	1	1655	204	.00	.00	.00	0.
1	0430	55	.01	.01	.00	1.	*	1	1700	205	.00	.00	.00	0.
1	0435	56	.01	.01	.00	1.	*	1	1705	206	.00	.00	.00	0.
1	0440	57	.01	.01	.00	1.	*	1	1710	207	.00	.00	.00	0.
1	0445	58	.01	.01	.00	1.	*	1	1715	208	.00	.00	.00	0.
1	0450	59	.00	.00	.00	1.	*	1	1720	209	.00	.00	.00	0.
1	0455	60	.00	.00	.00	1.	*	1	1725	210	.00	.00	.00	0.
1	0500	61	.00	.00	.00	1.	*	1	1730	211	.00	.00	.00	0.
1	0505	62	.00	.00	.00	1.	*	1	1735	212	.00	.00	.00	0.
1	0510	63	.00	.00	.00	1.	*	1	1740	213	.00	.00	.00	0.
1	0515	64	.00	.00	.00	1.	*	1	1745	214	.00	.00	.00	0.
1	0520	65	.00	.00	.00	1.	*	1	1750	215	.00	.00	.00	0.
1	0525	66	.00	.00	.00	1.	*	1	1755	216	.00	.00	.00	0.
1	0530	67	.00	.00	.00	1.	*	1	1800	217	.00	.00	.00	0.
1	0535	68	.00	.00	.00	1.	*	1	1805	218	.00	.00	.00	0.
1	0540	69	.00	.00	.00	1.	*	1	1810	219	.00	.00	.00	0.
1	0545	70	.00	.00	.00	0.	*	1	1815	220	.00	.00	.00	0.
1	0550	71	.00	.00	.00	0.	*	1	1820	221	.00	.00	.00	0.
1	0555	72	.00	.00	.00	0.	*	1	1825	222	.00	.00	.00	0.
1	0600	73	.00	.00	.00	0.	*	1	1830	223	.00	.00	.00	0.
1	0605	74	.00	.00	.00	0.	*	1	1835	224	.00	.00	.00	0.
1	0610	75	.00	.00	.00	0.	*	1	1840	225	.00	.00	.00	0.
1	0615	76	.00	.00	.00	0.	*	1	1845	226	.00	.00	.00	0.
1	0620	77	.00	.00	.00	0.	*	1	1850	227	.00	.00	.00	0.
1	0625	78	.00	.00	.00	0.	*	1	1855	228	.00	.00	.00	0.
1	0630	79	.00	.00	.00	0.	*	1	1900	229	.00	.00	.00	0.
1	0635	80	.00	.00	.00	0.	*	1	1905	230	.00	.00	.00	0.
1	0640	81	.00	.00	.00	0.	*	1	1910	231	.00	.00	.00	0.
1	0645	82	.00	.00	.00	0.	*	1	1915	232	.00	.00	.00	0.
1	0650	83	.00	.00	.00	0.	*	1	1920	233	.00	.00	.00	0.
1	0655	84	.00	.00	.00	0.	*	1	1925	234	.00	.00	.00	0.
1	0700	85	.00	.00	.00	0.	*	1	1930	235	.00	.00	.00	0.
1	0705	86	.00	.00	.00	0.	*	1	1935	236	.00	.00	.00	0.
1	0710	87	.00	.00	.00	0.	*	1	1940	237	.00	.00	.00	0.
1	0715	88	.00	.00	.00	0.	*	1	1945	238	.00	.00	.00	0.
1	0720	89	.00	.00	.00	0.	*	1	1950	239	.00	.00	.00	0.
1	0725	90	.00	.00	.00	0.	*	1	1955	240	.00	.00	.00	0.
1	0730	91	.00	.00	.00	0.	*	1	2000	241	.00	.00	.00	0.
1	0735	92	.00	.00	.00	0.	*	1	2005	242	.00	.00	.00	0.
1	0740	93	.00	.00	.00	0.	*	1	2010	243	.00	.00	.00	0.
1	0745	94	.00	.00	.00	0.	*	1	2015	244	.00	.00	.00	0.
1	0750	95	.00	.00	.00	0.	*	1	2020	245	.00	.00	.00	0.
1	0755	96	.00	.00	.00	0.	*	1	2025	246	.00	.00	.00	0.
1	0800	97	.00	.00	.00	0.	*	1	2030	247	.00	.00	.00	0.
1	0805	98	.00	.00	.00	0.	*	1	2035	248	.00	.00	.00	0.

1	0810	99	.00	.00	.00	0.	*	1	2040	249	.00	.00	.00	0.
1	0815	100	.00	.00	.00	0.	*	1	2045	250	.00	.00	.00	0.
1	0820	101	.00	.00	.00	0.	*	1	2050	251	.00	.00	.00	0.
1	0825	102	.00	.00	.00	0.	*	1	2055	252	.00	.00	.00	0.
1	0830	103	.00	.00	.00	0.	*	1	2100	253	.00	.00	.00	0.
1	0835	104	.00	.00	.00	0.	*	1	2105	254	.00	.00	.00	0.
1	0840	105	.00	.00	.00	0.	*	1	2110	255	.00	.00	.00	0.
1	0845	106	.00	.00	.00	0.	*	1	2115	256	.00	.00	.00	0.
1	0850	107	.00	.00	.00	0.	*	1	2120	257	.00	.00	.00	0.
1	0855	108	.00	.00	.00	0.	*	1	2125	258	.00	.00	.00	0.
1	0900	109	.00	.00	.00	0.	*	1	2130	259	.00	.00	.00	0.
1	0905	110	.00	.00	.00	0.	*	1	2135	260	.00	.00	.00	0.
1	0910	111	.00	.00	.00	0.	*	1	2140	261	.00	.00	.00	0.
1	0915	112	.00	.00	.00	0.	*	1	2145	262	.00	.00	.00	0.
1	0920	113	.00	.00	.00	0.	*	1	2150	263	.00	.00	.00	0.
1	0925	114	.00	.00	.00	0.	*	1	2155	264	.00	.00	.00	0.
1	0930	115	.00	.00	.00	0.	*	1	2200	265	.00	.00	.00	0.
1	0935	116	.00	.00	.00	0.	*	1	2205	266	.00	.00	.00	0.
1	0940	117	.00	.00	.00	0.	*	1	2210	267	.00	.00	.00	0.
1	0945	118	.00	.00	.00	0.	*	1	2215	268	.00	.00	.00	0.
1	0950	119	.00	.00	.00	0.	*	1	2220	269	.00	.00	.00	0.
1	0955	120	.00	.00	.00	0.	*	1	2225	270	.00	.00	.00	0.
1	1000	121	.00	.00	.00	0.	*	1	2230	271	.00	.00	.00	0.
1	1005	122	.00	.00	.00	0.	*	1	2235	272	.00	.00	.00	0.
1	1010	123	.00	.00	.00	0.	*	1	2240	273	.00	.00	.00	0.
1	1015	124	.00	.00	.00	0.	*	1	2245	274	.00	.00	.00	0.
1	1020	125	.00	.00	.00	0.	*	1	2250	275	.00	.00	.00	0.
1	1025	126	.00	.00	.00	0.	*	1	2255	276	.00	.00	.00	0.
1	1030	127	.00	.00	.00	0.	*	1	2300	277	.00	.00	.00	0.
1	1035	128	.00	.00	.00	0.	*	1	2305	278	.00	.00	.00	0.
1	1040	129	.00	.00	.00	0.	*	1	2310	279	.00	.00	.00	0.
1	1045	130	.00	.00	.00	0.	*	1	2315	280	.00	.00	.00	0.
1	1050	131	.00	.00	.00	0.	*	1	2320	281	.00	.00	.00	0.
1	1055	132	.00	.00	.00	0.	*	1	2325	282	.00	.00	.00	0.
1	1100	133	.00	.00	.00	0.	*	1	2330	283	.00	.00	.00	0.
1	1105	134	.00	.00	.00	0.	*	1	2335	284	.00	.00	.00	0.
1	1110	135	.00	.00	.00	0.	*	1	2340	285	.00	.00	.00	0.
1	1115	136	.00	.00	.00	0.	*	1	2345	286	.00	.00	.00	0.
1	1120	137	.00	.00	.00	0.	*	1	2350	287	.00	.00	.00	0.
1	1125	138	.00	.00	.00	0.	*	1	2355	288	.00	.00	.00	0.
1	1130	139	.00	.00	.00	0.	*	2	0000	289	.00	.00	.00	0.
1	1135	140	.00	.00	.00	0.	*	2	0005	290	.00	.00	.00	0.
1	1140	141	.00	.00	.00	0.	*	2	0010	291	.00	.00	.00	0.
1	1145	142	.00	.00	.00	0.	*	2	0015	292	.00	.00	.00	0.
1	1150	143	.00	.00	.00	0.	*	2	0020	293	.00	.00	.00	0.
1	1155	144	.00	.00	.00	0.	*	2	0025	294	.00	.00	.00	0.
1	1200	145	.00	.00	.00	0.	*	2	0030	295	.00	.00	.00	0.
1	1205	146	.00	.00	.00	0.	*	2	0035	296	.00	.00	.00	0.
1	1210	147	.00	.00	.00	0.	*	2	0040	297	.00	.00	.00	0.
1	1215	148	.00	.00	.00	0.	*	2	0045	298	.00	.00	.00	0.
1	1220	149	.00	.00	.00	0.	*	2	0050	299	.00	.00	.00	0.
1	1225	150	.00	.00	.00	0.	*	2	0055	300	.00	.00	.00	0.
							*							

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TOTAL RAINFALL = 1.19, TOTAL LOSS = .81, TOTAL EXCESS = .38

PEAK FLOW TIME MAXIMUM AVERAGE FLOW

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                                    6-HR        24-HR       72-HR     24.92-HR
(CFS)       (HR)
                          (CFS)
    1.      4.42                     0.          0.          0.          0.
                        (INCHES)    .353        .375        .375        .375
                         (AC-FT)     0.          0.          0.          0.

                        CUMULATIVE AREA =     .01 SQ MI
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          **************
          *            *
75 KK     *   Node8    *
          *            *
          **************
                        Route area through subdivision to remove retention storage

80 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          2  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL         0.  HYDROGRAPH PLOT SCALE

             HYDROGRAPH ROUTING DATA

77 RS          STORAGE ROUTING
                     NSTPS          1  NUMBER OF SUBREACHES
                      ITYP       STOR  TYPE OF INITIAL CONDITION
                    RSVRIC        .00  INITIAL CONDITION
                         X        .00  WORKING R AND D COEFFICIENT

78 SV            STORAGE        .0        .6        .6        .6        .6        .6        .6

79 SQ          DISCHARGE        0.        0.       10.       20.       30.       40.       50.

                                                          ***

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN        0. TO       50.
                THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
                THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)
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HYDROGRAPH AT STATION Node8

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DA	MON	HRMN	ORD	OUTFLOW	STORAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE
1		0000	1	0.	.00	*	1		0820	101	0.	.19	*	1		1640	201	0.	.20
1		0005	2	0.	.00	*	1		0825	102	0.	.20	*	1		1645	202	0.	.20
1		0010	3	0.	.00	*	1		0830	103	0.	.20	*	1		1650	203	0.	.20
1		0015	4	0.	.00	*	1		0835	104	0.	.20	*	1		1655	204	0.	.20
1		0020	5	0.	.00	*	1		0840	105	0.	.20	*	1		1700	205	0.	.20

1	0025	6	0.	.00	*	1	0845	106	0.	.20	*	1	1705	206	0.	.20
1	0030	7	0.	.00	*	1	0850	107	0.	.20	*	1	1710	207	0.	.20
1	0035	8	0.	.00	*	1	0855	108	0.	.20	*	1	1715	208	0.	.20
1	0040	9	0.	.00	*	1	0900	109	0.	.20	*	1	1720	209	0.	.20
1	0045	10	0.	.00	*	1	0905	110	0.	.20	*	1	1725	210	0.	.20
1	0050	11	0.	.00	*	1	0910	111	0.	.20	*	1	1730	211	0.	.20
1	0055	12	0.	.00	*	1	0915	112	0.	.20	*	1	1735	212	0.	.20
1	0100	13	0.	.00	*	1	0920	113	0.	.20	*	1	1740	213	0.	.20
1	0105	14	0.	.00	*	1	0925	114	0.	.20	*	1	1745	214	0.	.20
1	0110	15	0.	.00	*	1	0930	115	0.	.20	*	1	1750	215	0.	.20
1	0115	16	0.	.00	*	1	0935	116	0.	.20	*	1	1755	216	0.	.20
1	0120	17	0.	.00	*	1	0940	117	0.	.20	*	1	1800	217	0.	.20
1	0125	18	0.	.00	*	1	0945	118	0.	.20	*	1	1805	218	0.	.20
1	0130	19	0.	.00	*	1	0950	119	0.	.20	*	1	1810	219	0.	.20
1	0135	20	0.	.00	*	1	0955	120	0.	.20	*	1	1815	220	0.	.20
1	0140	21	0.	.00	*	1	1000	121	0.	.20	*	1	1820	221	0.	.20
1	0145	22	0.	.00	*	1	1005	122	0.	.20	*	1	1825	222	0.	.20
1	0150	23	0.	.00	*	1	1010	123	0.	.20	*	1	1830	223	0.	.20
1	0155	24	0.	.00	*	1	1015	124	0.	.20	*	1	1835	224	0.	.20
1	0200	25	0.	.01	*	1	1020	125	0.	.20	*	1	1840	225	0.	.20
1	0205	26	0.	.01	*	1	1025	126	0.	.20	*	1	1845	226	0.	.20
1	0210	27	0.	.01	*	1	1030	127	0.	.20	*	1	1850	227	0.	.20
1	0215	28	0.	.01	*	1	1035	128	0.	.20	*	1	1855	228	0.	.20
1	0220	29	0.	.01	*	1	1040	129	0.	.20	*	1	1900	229	0.	.20
1	0225	30	0.	.01	*	1	1045	130	0.	.20	*	1	1905	230	0.	.20
1	0230	31	0.	.01	*	1	1050	131	0.	.20	*	1	1910	231	0.	.20
1	0235	32	0.	.01	*	1	1055	132	0.	.20	*	1	1915	232	0.	.20
1	0240	33	0.	.01	*	1	1100	133	0.	.20	*	1	1920	233	0.	.20
1	0245	34	0.	.01	*	1	1105	134	0.	.20	*	1	1925	234	0.	.20
1	0250	35	0.	.01	*	1	1110	135	0.	.20	*	1	1930	235	0.	.20
1	0255	36	0.	.01	*	1	1115	136	0.	.20	*	1	1935	236	0.	.20
1	0300	37	0.	.01	*	1	1120	137	0.	.20	*	1	1940	237	0.	.20
1	0305	38	0.	.01	*	1	1125	138	0.	.20	*	1	1945	238	0.	.20
1	0310	39	0.	.01	*	1	1130	139	0.	.20	*	1	1950	239	0.	.20
1	0315	40	0.	.01	*	1	1135	140	0.	.20	*	1	1955	240	0.	.20
1	0320	41	0.	.01	*	1	1140	141	0.	.20	*	1	2000	241	0.	.20
1	0325	42	0.	.01	*	1	1145	142	0.	.20	*	1	2005	242	0.	.20
1	0330	43	0.	.02	*	1	1150	143	0.	.20	*	1	2010	243	0.	.20
1	0335	44	0.	.02	*	1	1155	144	0.	.20	*	1	2015	244	0.	.20
1	0340	45	0.	.02	*	1	1200	145	0.	.20	*	1	2020	245	0.	.20
1	0345	46	0.	.02	*	1	1205	146	0.	.20	*	1	2025	246	0.	.20
1	0350	47	0.	.02	*	1	1210	147	0.	.20	*	1	2030	247	0.	.20
1	0355	48	0.	.02	*	1	1215	148	0.	.20	*	1	2035	248	0.	.20
1	0400	49	0.	.03	*	1	1220	149	0.	.20	*	1	2040	249	0.	.20
1	0405	50	0.	.03	*	1	1225	150	0.	.20	*	1	2045	250	0.	.20
1	0410	51	0.	.04	*	1	1230	151	0.	.20	*	1	2050	251	0.	.20
1	0415	52	0.	.05	*	1	1235	152	0.	.20	*	1	2055	252	0.	.20
1	0420	53	0.	.05	*	1	1240	153	0.	.20	*	1	2100	253	0.	.20
1	0425	54	0.	.06	*	1	1245	154	0.	.20	*	1	2105	254	0.	.20
1	0430	55	0.	.07	*	1	1250	155	0.	.20	*	1	2110	255	0.	.20
1	0435	56	0.	.08	*	1	1255	156	0.	.20	*	1	2115	256	0.	.20
1	0440	57	0.	.08	*	1	1300	157	0.	.20	*	1	2120	257	0.	.20
1	0445	58	0.	.09	*	1	1305	158	0.	.20	*	1	2125	258	0.	.20
1	0450	59	0.	.10	*	1	1310	159	0.	.20	*	1	2130	259	0.	.20
1	0455	60	0.	.10	*	1	1315	160	0.	.20	*	1	2135	260	0.	.20
1	0500	61	0.	.11	*	1	1320	161	0.	.20	*	1	2140	261	0.	.20
1	0505	62	0.	.11	*	1	1325	162	0.	.20	*	1	2145	262	0.	.20
1	0510	63	0.	.12	*	1	1330	163	0.	.20	*	1	2150	263	0.	.20

1	0515	64	0.	.12	*	1	1335	164	0.	.20	*	1	2155	264	0.	.20
1	0520	65	0.	.13	*	1	1340	165	0.	.20	*	1	2200	265	0.	.20
1	0525	66	0.	.13	*	1	1345	166	0.	.20	*	1	2205	266	0.	.20
1	0530	67	0.	.14	*	1	1350	167	0.	.20	*	1	2210	267	0.	.20
1	0535	68	0.	.14	*	1	1355	168	0.	.20	*	1	2215	268	0.	.20
1	0540	69	0.	.15	*	1	1400	169	0.	.20	*	1	2220	269	0.	.20
1	0545	70	0.	.15	*	1	1405	170	0.	.20	*	1	2225	270	0.	.20
1	0550	71	0.	.15	*	1	1410	171	0.	.20	*	1	2230	271	0.	.20
1	0555	72	0.	.15	*	1	1415	172	0.	.20	*	1	2235	272	0.	.20
1	0600	73	0.	.16	*	1	1420	173	0.	.20	*	1	2240	273	0.	.20
1	0605	74	0.	.16	*	1	1425	174	0.	.20	*	1	2245	274	0.	.20
1	0610	75	0.	.16	*	1	1430	175	0.	.20	*	1	2250	275	0.	.20
1	0615	76	0.	.17	*	1	1435	176	0.	.20	*	1	2255	276	0.	.20
1	0620	77	0.	.17	*	1	1440	177	0.	.20	*	1	2300	277	0.	.20
1	0625	78	0.	.17	*	1	1445	178	0.	.20	*	1	2305	278	0.	.20
1	0630	79	0.	.17	*	1	1450	179	0.	.20	*	1	2310	279	0.	.20
1	0635	80	0.	.17	*	1	1455	180	0.	.20	*	1	2315	280	0.	.20
1	0640	81	0.	.18	*	1	1500	181	0.	.20	*	1	2320	281	0.	.20
1	0645	82	0.	.18	*	1	1505	182	0.	.20	*	1	2325	282	0.	.20
1	0650	83	0.	.18	*	1	1510	183	0.	.20	*	1	2330	283	0.	.20
1	0655	84	0.	.18	*	1	1515	184	0.	.20	*	1	2335	284	0.	.20
1	0700	85	0.	.18	*	1	1520	185	0.	.20	*	1	2340	285	0.	.20
1	0705	86	0.	.18	*	1	1525	186	0.	.20	*	1	2345	286	0.	.20
1	0710	87	0.	.18	*	1	1530	187	0.	.20	*	1	2350	287	0.	.20
1	0715	88	0.	.19	*	1	1535	188	0.	.20	*	1	2355	288	0.	.20
1	0720	89	0.	.19	*	1	1540	189	0.	.20	*	2	0000	289	0.	.20
1	0725	90	0.	.19	*	1	1545	190	0.	.20	*	2	0005	290	0.	.20
1	0730	91	0.	.19	*	1	1550	191	0.	.20	*	2	0010	291	0.	.20
1	0735	92	0.	.19	*	1	1555	192	0.	.20	*	2	0015	292	0.	.20
1	0740	93	0.	.19	*	1	1600	193	0.	.20	*	2	0020	293	0.	.20
1	0745	94	0.	.19	*	1	1605	194	0.	.20	*	2	0025	294	0.	.20
1	0750	95	0.	.19	*	1	1610	195	0.	.20	*	2	0030	295	0.	.20
1	0755	96	0.	.19	*	1	1615	196	0.	.20	*	2	0035	296	0.	.20
1	0800	97	0.	.19	*	1	1620	197	0.	.20	*	2	0040	297	0.	.20
1	0805	98	0.	.19	*	1	1625	198	0.	.20	*	2	0045	298	0.	.20
1	0810	99	0.	.19	*	1	1630	199	0.	.20	*	2	0050	299	0.	.20
1	0815	100	0.	.19	*	1	1635	200	0.	.20	*	2	0055	300	0.	.20
					*						*					

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
0.	.08		0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
0.	10.08	0.	0.	0.	0.

CUMULATIVE AREA = .01 SQ MI

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*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

          **************
          *            *
 81 KK    *    Node13  *
          *            *
          **************
                       confluence g1-g2 with g3

 83 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

 85 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

 84 HC          HYDROGRAPH COMBINATION
                      ICOMP          2  NUMBER OF HYDROGRAPHS TO COMBINE

                                                    ***

*************************************************************************************************************************************

                                        HYDROGRAPH AT STATION   Node13
                                            SUM OF  2 HYDROGRAPHS

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	4.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	4.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	4.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	3.	1		1245	154	0.	1		1900	229	0.
1		0020	5	0.	1		0635	80	3.	1		1250	155	0.	1		1905	230	0.
1		0025	6	0.	1		0640	81	3.	1		1255	156	0.	1		1910	231	0.
1		0030	7	0.	1		0645	82	3.	1		1300	157	0.	1		1915	232	0.
1		0035	8	0.	1		0650	83	2.	1		1305	158	0.	1		1920	233	0.
1		0040	9	0.	1		0655	84	2.	1		1310	159	0.	1		1925	234	0.
1		0045	10	0.	1		0700	85	2.	1		1315	160	0.	1		1930	235	0.
1		0050	11	0.	1		0705	86	2.	1		1320	161	0.	1		1935	236	0.
1		0055	12	0.	1		0710	87	1.	1		1325	162	0.	1		1940	237	0.
1		0100	13	0.	1		0715	88	1.	1		1330	163	0.	1		1945	238	0.
1		0105	14	0.	1		0720	89	1.	1		1335	164	0.	1		1950	239	0.
1		0110	15	0.	1		0725	90	1.	1		1340	165	0.	1		1955	240	0.
1		0115	16	0.	1		0730	91	1.	1		1345	166	0.	1		2000	241	0.
1		0120	17	0.	1		0735	92	1.	1		1350	167	0.	1		2005	242	0.
1		0125	18	0.	1		0740	93	1.	1		1355	168	0.	1		2010	243	0.
1		0130	19	0.	1		0745	94	1.	1		1400	169	0.	1		2015	244	0.
1		0135	20	0.	1		0750	95	1.	1		1405	170	0.	1		2020	245	0.
1		0140	21	1.	1		0755	96	1.	1		1410	171	0.	1		2025	246	0.
1		0145	22	1.	1		0800	97	0.	1		1415	172	0.	1		2030	247	0.
1		0150	23	1.	1		0805	98	0.	1		1420	173	0.	1		2035	248	0.
1		0155	24	1.	1		0810	99	0.	1		1425	174	0.	1		2040	249	0.

1	0200	25	1.	*	1	0815	100	0.	*	1	1430	175	0.	*	1	2045	250	0.
1	0205	26	1.	*	1	0820	101	0.	*	1	1435	176	0.	*	1	2050	251	0.
1	0210	27	1.	*	1	0825	102	0.	*	1	1440	177	0.	*	1	2055	252	0.
1	0215	28	1.	*	1	0830	103	0.	*	1	1445	178	0.	*	1	2100	253	0.
1	0220	29	1.	*	1	0835	104	0.	*	1	1450	179	0.	*	1	2105	254	0.
1	0225	30	1.	*	1	0840	105	0.	*	1	1455	180	0.	*	1	2110	255	0.
1	0230	31	1.	*	1	0845	106	0.	*	1	1500	181	0.	*	1	2115	256	0.
1	0235	32	1.	*	1	0850	107	0.	*	1	1505	182	0.	*	1	2120	257	0.
1	0240	33	1.	*	1	0855	108	0.	*	1	1510	183	0.	*	1	2125	258	0.
1	0245	34	1.	*	1	0900	109	0.	*	1	1515	184	0.	*	1	2130	259	0.
1	0250	35	1.	*	1	0905	110	0.	*	1	1520	185	0.	*	1	2135	260	0.
1	0255	36	1.	*	1	0910	111	0.	*	1	1525	186	0.	*	1	2140	261	0.
1	0300	37	1.	*	1	0915	112	0.	*	1	1530	187	0.	*	1	2145	262	0.
1	0305	38	1.	*	1	0920	113	0.	*	1	1535	188	0.	*	1	2150	263	0.
1	0310	39	1.	*	1	0925	114	0.	*	1	1540	189	0.	*	1	2155	264	0.
1	0315	40	1.	*	1	0930	115	0.	*	1	1545	190	0.	*	1	2200	265	0.
1	0320	41	1.	*	1	0935	116	0.	*	1	1550	191	0.	*	1	2205	266	0.
1	0325	42	1.	*	1	0940	117	0.	*	1	1555	192	0.	*	1	2210	267	0.
1	0330	43	1.	*	1	0945	118	0.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	1.	*	1	0950	119	0.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	1.	*	1	0955	120	0.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	1.	*	1	1000	121	0.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	2.	*	1	1005	122	0.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	2.	*	1	1010	123	0.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	3.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	3.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	4.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	6.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	10.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	13.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	15.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	17.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	18.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	18.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	17.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	17.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	16.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	15.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	14.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	12.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	11.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	10.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	9.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	8.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	8.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	7.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	6.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	6.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	6.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	5.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	5.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)	(CFS)			

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  18.     4.75                    5.          1.          1.          1.
                   (INCHES)      .096        .098        .098        .098
                    (AC-FT)       2.          2.          2.          2.

                    CUMULATIVE AREA =     .46 SQ MI
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        **************
        *            *
 86 KK  *    Node10  *
        *            *
        **************
                     Route water from  middle of subdivision to old mcdowell

 92 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

            HYDROGRAPH ROUTING DATA

 88 RS          STORAGE ROUTING
                      NSTPS          1  NUMBER OF SUBREACHES
                       ITYP       STOR  TYPE OF INITIAL CONDITION
                     RSVRIC        .00  INITIAL CONDITION
                          X        .00 WORKING R AND D COEFFICIENT

 89 RC          NORMAL DEPTH CHANNEL
                        ANL       .035  LEFT OVERBANK N-VALUE
                       ANCH       .035  MAIN CHANNEL N-VALUE
                        ANR       .035  RIGHT OVERBANK N-VALUE
                      RLNTH       650.  REACH LENGTH
                        SEL      .0022  ENERGY SLOPE
                      ELMAX       15.0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                   CROSS-SECTION DATA
                      --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
 91 RY       ELEVATION     15.00     11.00     10.00      5.85      5.85     10.00     11.00     15.00
 90 RX       DISTANCE        .00     20.00    120.00    136.60    146.60    162.20    262.20    282.20

                                                  ***

                                   COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

          STORAGE        .00       .09       .20       .34       .50       .69       .91      1.16      1.43      1.78
          OUTFLOW        .00      6.32     21.74     46.35     81.01    126.67    184.32    254.90    339.36    449.06
        ELEVATION       5.85      6.33      6.81      7.29      7.78      8.26      8.74      9.22      9.70     10.18

          STORAGE       2.70      4.27      6.04      7.84      9.68     11.55     13.46     15.40     17.38     19.39
          OUTFLOW     628.29    931.10   1390.33   1963.47   2640.18   3413.96   4280.30   5235.91   6278.27   7405.46
        ELEVATION      10.67     11.15     11.63     12.11     12.59     13.07     13.56     14.04     14.52     15.00
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*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 255. TO 7405.
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

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HYDROGRAPH AT STATION Node10

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DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	5.8	1		0820	101	0.	.0	5.9	1		1640	201	0.	.0	5.8
1		0005	2	0.	.0	5.9	1		0825	102	0.	.0	5.9	1		1645	202	0.	.0	5.8
1		0010	3	0.	.0	5.9	1		0830	103	0.	.0	5.9	1		1650	203	0.	.0	5.8
1		0015	4	0.	.0	5.9	1		0835	104	0.	.0	5.9	1		1655	204	0.	.0	5.8
1		0020	5	0.	.0	5.9	1		0840	105	0.	.0	5.9	1		1700	205	0.	.0	5.8
1		0025	6	0.	.0	5.9	1		0845	106	0.	.0	5.9	1		1705	206	0.	.0	5.8
1		0030	7	0.	.0	5.9	1		0850	107	0.	.0	5.9	1		1710	207	0.	.0	5.8
1		0035	8	0.	.0	5.9	1		0855	108	0.	.0	5.9	1		1715	208	0.	.0	5.8
1		0040	9	0.	.0	5.9	1		0900	109	0.	.0	5.9	1		1720	209	0.	.0	5.8
1		0045	10	0.	.0	5.9	1		0905	110	0.	.0	5.9	1		1725	210	0.	.0	5.8
1		0050	11	0.	.0	5.9	1		0910	111	0.	.0	5.9	1		1730	211	0.	.0	5.8
1		0055	12	0.	.0	5.9	1		0915	112	0.	.0	5.9	1		1735	212	0.	.0	5.8
1		0100	13	0.	.0	5.9	1		0920	113	0.	.0	5.9	1		1740	213	0.	.0	5.8
1		0105	14	0.	.0	5.9	1		0925	114	0.	.0	5.9	1		1745	214	0.	.0	5.8
1		0110	15	0.	.0	5.9	1		0930	115	0.	.0	5.9	1		1750	215	0.	.0	5.8
1		0115	16	0.	.0	5.9	1		0935	116	0.	.0	5.9	1		1755	216	0.	.0	5.8
1		0120	17	0.	.0	5.9	1		0940	117	0.	.0	5.9	1		1800	217	0.	.0	5.8
1		0125	18	0.	.0	5.9	1		0945	118	0.	.0	5.9	1		1805	218	0.	.0	5.8
1		0130	19	0.	.0	5.9	1		0950	119	0.	.0	5.9	1		1810	219	0.	.0	5.8
1		0135	20	0.	.0	5.9	1		0955	120	0.	.0	5.9	1		1815	220	0.	.0	5.8
1		0140	21	0.	.0	5.9	1		1000	121	0.	.0	5.9	1		1820	221	0.	.0	5.8
1		0145	22	0.	.0	5.9	1		1005	122	0.	.0	5.9	1		1825	222	0.	.0	5.8
1		0150	23	1.	.0	5.9	1		1010	123	0.	.0	5.9	1		1830	223	0.	.0	5.8
1		0155	24	1.	.0	5.9	1		1015	124	0.	.0	5.9	1		1835	224	0.	.0	5.8
1		0200	25	1.	.0	5.9	1		1020	125	0.	.0	5.9	1		1840	225	0.	.0	5.8
1		0205	26	1.	.0	5.9	1		1025	126	0.	.0	5.9	1		1845	226	0.	.0	5.8
1		0210	27	1.	.0	5.9	1		1030	127	0.	.0	5.9	1		1850	227	0.	.0	5.8
1		0215	28	1.	.0	5.9	1		1035	128	0.	.0	5.9	1		1855	228	0.	.0	5.8
1		0220	29	1.	.0	5.9	1		1040	129	0.	.0	5.9	1		1900	229	0.	.0	5.8
1		0225	30	1.	.0	5.9	1		1045	130	0.	.0	5.9	1		1905	230	0.	.0	5.8
1		0230	31	1.	.0	5.9	1		1050	131	0.	.0	5.9	1		1910	231	0.	.0	5.8
1		0235	32	1.	.0	5.9	1		1055	132	0.	.0	5.9	1		1915	232	0.	.0	5.8
1		0240	33	1.	.0	5.9	1		1100	133	0.	.0	5.9	1		1920	233	0.	.0	5.8
1		0245	34	1.	.0	5.9	1		1105	134	0.	.0	5.9	1		1925	234	0.	.0	5.8
1		0250	35	1.	.0	5.9	1		1110	135	0.	.0	5.9	1		1930	235	0.	.0	5.8
1		0255	36	1.	.0	5.9	1		1115	136	0.	.0	5.9	1		1935	236	0.	.0	5.8
1		0300	37	1.	.0	5.9	1		1120	137	0.	.0	5.9	1		1940	237	0.	.0	5.8
1		0305	38	1.	.0	5.9	1		1125	138	0.	.0	5.9	1		1945	238	0.	.0	5.8
1		0310	39	1.	.0	5.9	1		1130	139	0.	.0	5.9	1		1950	239	0.	.0	5.8
1		0315	40	1.	.0	5.9	1		1135	140	0.	.0	5.9	1		1955	240	0.	.0	5.8
1		0320	41	1.	.0	5.9	1		1140	141	0.	.0	5.9	1		2000	241	0.	.0	5.8
1		0325	42	1.	.0	5.9	1		1145	142	0.	.0	5.9	1		2005	242	0.	.0	5.8
1		0330	43	1.	.0	5.9	1		1150	143	0.	.0	5.9	1		2010	243	0.	.0	5.8
1		0335	44	1.	.0	5.9	1		1155	144	0.	.0	5.8	1		2015	244	0.	.0	5.8
1		0340	45	1.	.0	5.9	1		1200	145	0.	.0	5.8	1		2020	245	0.	.0	5.8
1		0345	46	1.	.0	5.9	1		1205	146	0.	.0	5.8	1		2025	246	0.	.0	5.8

1	0350	47	1.	.0	6.0	*	1	1210	147	0.	.0	5.8	*	1	2030	247	0.	.0	5.8
1	0355	48	2.	.0	6.0	*	1	1215	148	0.	.0	5.8	*	1	2035	248	0.	.0	5.8
1	0400	49	2.	.0	6.0	*	1	1220	149	0.	.0	5.8	*	1	2040	249	0.	.0	5.8
1	0405	50	2.	.0	6.0	*	1	1225	150	0.	.0	5.8	*	1	2045	250	0.	.0	5.8
1	0410	51	3.	.0	6.1	*	1	1230	151	0.	.0	5.8	*	1	2050	251	0.	.0	5.8
1	0415	52	4.	.1	6.1	*	1	1235	152	0.	.0	5.8	*	1	2055	252	0.	.0	5.8
1	0420	53	6.	.1	6.3	*	1	1240	153	0.	.0	5.8	*	1	2100	253	0.	.0	5.8
1	0425	54	9.	.1	6.4	*	1	1245	154	0.	.0	5.8	*	1	2105	254	0.	.0	5.8
1	0430	55	12.	.1	6.5	*	1	1250	155	0.	.0	5.8	*	1	2110	255	0.	.0	5.8
1	0435	56	15.	.1	6.6	*	1	1255	156	0.	.0	5.8	*	1	2115	256	0.	.0	5.8
1	0440	57	17.	.2	6.7	*	1	1300	157	0.	.0	5.8	*	1	2120	257	0.	.0	5.8
1	0445	58	17.	.2	6.7	*	1	1305	158	0.	.0	5.8	*	1	2125	258	0.	.0	5.8
1	0450	59	18.	.2	6.7	*	1	1310	159	0.	.0	5.8	*	1	2130	259	0.	.0	5.8
1	0455	60	17.	.2	6.7	*	1	1315	160	0.	.0	5.8	*	1	2135	260	0.	.0	5.8
1	0500	61	17.	.2	6.7	*	1	1320	161	0.	.0	5.8	*	1	2140	261	0.	.0	5.8
1	0505	62	16.	.2	6.6	*	1	1325	162	0.	.0	5.8	*	1	2145	262	0.	.0	5.8
1	0510	63	15.	.1	6.6	*	1	1330	163	0.	.0	5.8	*	1	2150	263	0.	.0	5.8
1	0515	64	14.	.1	6.6	*	1	1335	164	0.	.0	5.8	*	1	2155	264	0.	.0	5.8
1	0520	65	13.	.1	6.5	*	1	1340	165	0.	.0	5.8	*	1	2200	265	0.	.0	5.8
1	0525	66	11.	.1	6.5	*	1	1345	166	0.	.0	5.8	*	1	2205	266	0.	.0	5.8
1	0530	67	10.	.1	6.5	*	1	1350	167	0.	.0	5.8	*	1	2210	267	0.	.0	5.8
1	0535	68	9.	.1	6.4	*	1	1355	168	0.	.0	5.8	*	1	2215	268	0.	.0	5.8
1	0540	69	8.	.1	6.4	*	1	1400	169	0.	.0	5.8	*	1	2220	269	0.	.0	5.8
1	0545	70	8.	.1	6.4	*	1	1405	170	0.	.0	5.8	*	1	2225	270	0.	.0	5.8
1	0550	71	7.	.1	6.4	*	1	1410	171	0.	.0	5.8	*	1	2230	271	0.	.0	5.8
1	0555	72	6.	.1	6.3	*	1	1415	172	0.	.0	5.8	*	1	2235	272	0.	.0	5.8
1	0600	73	6.	.1	6.3	*	1	1420	173	0.	.0	5.8	*	1	2240	273	0.	.0	5.8
1	0605	74	6.	.1	6.3	*	1	1425	174	0.	.0	5.8	*	1	2245	274	0.	.0	5.8
1	0610	75	6.	.1	6.3	*	1	1430	175	0.	.0	5.8	*	1	2250	275	0.	.0	5.8
1	0615	76	5.	.1	6.2	*	1	1435	176	0.	.0	5.8	*	1	2255	276	0.	.0	5.8
1	0620	77	5.	.1	6.2	*	1	1440	177	0.	.0	5.8	*	1	2300	277	0.	.0	5.8
1	0625	78	4.	.1	6.2	*	1	1445	178	0.	.0	5.8	*	1	2305	278	0.	.0	5.8
1	0630	79	4.	.1	6.2	*	1	1450	179	0.	.0	5.8	*	1	2310	279	0.	.0	5.8
1	0635	80	4.	.1	6.1	*	1	1455	180	0.	.0	5.8	*	1	2315	280	0.	.0	5.8
1	0640	81	3.	.0	6.1	*	1	1500	181	0.	.0	5.8	*	1	2320	281	0.	.0	5.8
1	0645	82	3.	.0	6.1	*	1	1505	182	0.	.0	5.8	*	1	2325	282	0.	.0	5.8
1	0650	83	3.	.0	6.1	*	1	1510	183	0.	.0	5.8	*	1	2330	283	0.	.0	5.8
1	0655	84	3.	.0	6.0	*	1	1515	184	0.	.0	5.8	*	1	2335	284	0.	.0	5.8
1	0700	85	2.	.0	6.0	*	1	1520	185	0.	.0	5.8	*	1	2340	285	0.	.0	5.8
1	0705	86	2.	.0	6.0	*	1	1525	186	0.	.0	5.8	*	1	2345	286	0.	.0	5.8
1	0710	87	2.	.0	6.0	*	1	1530	187	0.	.0	5.8	*	1	2350	287	0.	.0	5.8
1	0715	88	2.	.0	6.0	*	1	1535	188	0.	.0	5.8	*	1	2355	288	0.	.0	5.8
1	0720	89	2.	.0	6.0	*	1	1540	189	0.	.0	5.8	*	2	0000	289	0.	.0	5.8
1	0725	90	1.	.0	6.0	*	1	1545	190	0.	.0	5.8	*	2	0005	290	0.	.0	5.8
1	0730	91	1.	.0	5.9	*	1	1550	191	0.	.0	5.8	*	2	0010	291	0.	.0	5.8
1	0735	92	1.	.0	5.9	*	1	1555	192	0.	.0	5.8	*	2	0015	292	0.	.0	5.8
1	0740	93	1.	.0	5.9	*	1	1600	193	0.	.0	5.8	*	2	0020	293	0.	.0	5.8
1	0745	94	1.	.0	5.9	*	1	1605	194	0.	.0	5.8	*	2	0025	294	0.	.0	5.8
1	0750	95	1.	.0	5.9	*	1	1610	195	0.	.0	5.8	*	2	0030	295	0.	.0	5.8
1	0755	96	1.	.0	5.9	*	1	1615	196	0.	.0	5.8	*	2	0035	296	0.	.0	5.8
1	0800	97	1.	.0	5.9	*	1	1620	197	0.	.0	5.8	*	2	0040	297	0.	.0	5.8
1	0805	98	1.	.0	5.9	*	1	1625	198	0.	.0	5.8	*	2	0045	298	0.	.0	5.8
1	0810	99	0.	.0	5.9	*	1	1630	199	0.	.0	5.8	*	2	0050	299	0.	.0	5.8
1	0815	100	0.	.0	5.9	*	1	1635	200	0.	.0	5.8	*	2	0055	300	0.	.0	5.8
						*							*						

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PEAK FLOW TIME MAXIMUM AVERAGE FLOW

(CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
18.	4.83		5.	1.	1.	1.
		(INCHES)	.096	.098	.098	.098
		(AC-FT)	2.	2.	2.	2.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
0.	4.83	0.	0.	0.	0.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
6.68	4.83	6.14	5.92	5.92	5.92

CUMULATIVE AREA = .46 SQ MI

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          **************
          *            *
 93 KK    *   DEVELO   *     P RAINFALL FOR SUBBASIN G4
          *            *
          **************
                        6-HOUR RAINFALL PATTERN NO. 1.23 WAS USED TO FIND TC & R FOR THIS BASIN
                        THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .990
                       L =  .98  Kb = .064  Adj. Slope =   26.3

103 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          2  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL         0.  HYDROGRAPH PLOT SCALE

              SUBBASIN RUNOFF DATA

 97 BA          SUBBASIN CHARACTERISTICS
                     TAREA        .25  SUBBASIN AREA

                PRECIPITATION DATA

 98 PB               STORM       1.19  BASIN TOTAL PRECIPITATION

 11 PI            INCREMENTAL PRECIPITATION PATTERN
                     .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                     .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                     .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                     .00      .00      .00      .01      .01      .01      .01      .01      .01      .03
                     .03      .03      .06      .06      .06      .14      .14      .14      .03      .03
                     .03      .01      .01      .01      .01      .01      .01      .00      .00      .00
                     .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                     .00      .00
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 99 LG          GREEN AND AMPT LOSS RATE
                      STRTL         .43  STARTING LOSS
                        DTH         .25  MOISTURE DEFICIT
                       PSIF        3.50  WETTING FRONT SUCTION
                      XKSAT         .51  HYDRAULIC CONDUCTIVITY
                      RTIMP       10.47  PERCENT IMPERVIOUS AREA

100 UC          CLARK UNITGRAPH
                         TC        1.00  TIME OF CONCENTRATION
                          R         .80  STORAGE COEFFICIENT

101 UA          ACCUMULATED-AREA VS. TIME,  11 ORDINATES
                      .0       5.0      16.0      30.0      65.0      77.0      84.0      90.0      94.0      97.0
                   100.0

                                                  ***

                                          UNIT HYDROGRAPH PARAMETERS
                                     CLARK   TC=  1.00 HR,       R=   .80 HR
                                    SNYDER   TP=   .57 HR,      CP=   .43

                                          UNIT HYDROGRAPH
                                     56 END-OF-PERIOD ORDINATES
              4.       16.       32.       57.       94.      119.      123.      121.      118.      113.
            107.      101.       94.       84.       76.       69.       62.       56.       50.       45.
             41.       37.       33.       30.       27.       24.       22.       20.       18.       16.
             14.       13.       12.       10.        9.        8.        8.        7.        6.        6.
              5.        5.        4.        4.        3.        3.        3.        2.        2.        2.
              2.        2.        1.        1.        1.        1.
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HYDROGRAPH AT STATION DEVELO

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1		0000	1	.00	.00	.00	0.	*	1		1230	151	.00	.00	.00	0.
1		0005	2	.00	.00	.00	0.	*	1		1235	152	.00	.00	.00	0.
1		0010	3	.00	.00	.00	0.	*	1		1240	153	.00	.00	.00	0.
1		0015	4	.00	.00	.00	0.	*	1		1245	154	.00	.00	.00	0.
1		0020	5	.00	.00	.00	0.	*	1		1250	155	.00	.00	.00	0.
1		0025	6	.00	.00	.00	0.	*	1		1255	156	.00	.00	.00	0.
1		0030	7	.00	.00	.00	0.	*	1		1300	157	.00	.00	.00	0.
1		0035	8	.00	.00	.00	0.	*	1		1305	158	.00	.00	.00	0.
1		0040	9	.00	.00	.00	0.	*	1		1310	159	.00	.00	.00	0.
1		0045	10	.00	.00	.00	0.	*	1		1315	160	.00	.00	.00	0.
1		0050	11	.00	.00	.00	0.	*	1		1320	161	.00	.00	.00	0.
1		0055	12	.00	.00	.00	0.	*	1		1325	162	.00	.00	.00	0.
1		0100	13	.00	.00	.00	0.	*	1		1330	163	.00	.00	.00	0.
1		0105	14	.00	.00	.00	0.	*	1		1335	164	.00	.00	.00	0.
1		0110	15	.00	.00	.00	0.	*	1		1340	165	.00	.00	.00	0.
1		0115	16	.00	.00	.00	0.	*	1		1345	166	.00	.00	.00	0.
1		0120	17	.00	.00	.00	0.	*	1		1350	167	.00	.00	.00	0.
1		0125	18	.00	.00	.00	0.	*	1		1355	168	.00	.00	.00	0.
1		0130	19	.00	.00	.00	0.	*	1		1400	169	.00	.00	.00	0.
1		0135	20	.00	.00	.00	1.	*	1		1405	170	.00	.00	.00	0.

1	0140	21	.00	.00	.00	1.	*	1	1410	171	.00	.00	.00	0.
1	0145	22	.00	.00	.00	1.	*	1	1415	172	.00	.00	.00	0.
1	0150	23	.00	.00	.00	1.	*	1	1420	173	.00	.00	.00	0.
1	0155	24	.00	.00	.00	1.	*	1	1425	174	.00	.00	.00	0.
1	0200	25	.00	.00	.00	1.	*	1	1430	175	.00	.00	.00	0.
1	0205	26	.00	.00	.00	1.	*	1	1435	176	.00	.00	.00	0.
1	0210	27	.00	.00	.00	1.	*	1	1440	177	.00	.00	.00	0.
1	0215	28	.00	.00	.00	1.	*	1	1445	178	.00	.00	.00	0.
1	0220	29	.01	.00	.00	1.	*	1	1450	179	.00	.00	.00	0.
1	0225	30	.01	.00	.00	1.	*	1	1455	180	.00	.00	.00	0.
1	0230	31	.01	.00	.00	1.	*	1	1500	181	.00	.00	.00	0.
1	0235	32	.00	.00	.00	1.	*	1	1505	182	.00	.00	.00	0.
1	0240	33	.00	.00	.00	1.	*	1	1510	183	.00	.00	.00	0.
1	0245	34	.00	.00	.00	1.	*	1	1515	184	.00	.00	.00	0.
1	0250	35	.01	.01	.00	1.	*	1	1520	185	.00	.00	.00	0.
1	0255	36	.01	.01	.00	1.	*	1	1525	186	.00	.00	.00	0.
1	0300	37	.01	.01	.00	1.	*	1	1530	187	.00	.00	.00	0.
1	0305	38	.01	.01	.00	1.	*	1	1535	188	.00	.00	.00	0.
1	0310	39	.01	.01	.00	1.	*	1	1540	189	.00	.00	.00	0.
1	0315	40	.01	.01	.00	1.	*	1	1545	190	.00	.00	.00	0.
1	0320	41	.03	.03	.00	1.	*	1	1550	191	.00	.00	.00	0.
1	0325	42	.03	.03	.00	1.	*	1	1555	192	.00	.00	.00	0.
1	0330	43	.03	.03	.00	1.	*	1	1600	193	.00	.00	.00	0.
1	0335	44	.07	.06	.01	1.	*	1	1605	194	.00	.00	.00	0.
1	0340	45	.07	.06	.01	2.	*	1	1610	195	.00	.00	.00	0.
1	0345	46	.07	.06	.01	2.	*	1	1615	196	.00	.00	.00	0.
1	0350	47	.16	.14	.02	3.	*	1	1620	197	.00	.00	.00	0.
1	0355	48	.16	.14	.02	4.	*	1	1625	198	.00	.00	.00	0.
1	0400	49	.16	.12	.04	5.	*	1	1630	199	.00	.00	.00	0.
1	0405	50	.04	.03	.00	7.	*	1	1635	200	.00	.00	.00	0.
1	0410	51	.04	.03	.00	8.	*	1	1640	201	.00	.00	.00	0.
1	0415	52	.04	.03	.00	11.	*	1	1645	202	.00	.00	.00	0.
1	0420	53	.01	.01	.00	13.	*	1	1650	203	.00	.00	.00	0.
1	0425	54	.01	.01	.00	14.	*	1	1655	204	.00	.00	.00	0.
1	0430	55	.01	.01	.00	14.	*	1	1700	205	.00	.00	.00	0.
1	0435	56	.01	.01	.00	14.	*	1	1705	206	.00	.00	.00	0.
1	0440	57	.01	.01	.00	13.	*	1	1710	207	.00	.00	.00	0.
1	0445	58	.01	.01	.00	13.	*	1	1715	208	.00	.00	.00	0.
1	0450	59	.00	.00	.00	12.	*	1	1720	209	.00	.00	.00	0.
1	0455	60	.00	.00	.00	12.	*	1	1725	210	.00	.00	.00	0.
1	0500	61	.00	.00	.00	11.	*	1	1730	211	.00	.00	.00	0.
1	0505	62	.00	.00	.00	10.	*	1	1735	212	.00	.00	.00	0.
1	0510	63	.00	.00	.00	9.	*	1	1740	213	.00	.00	.00	0.
1	0515	64	.00	.00	.00	8.	*	1	1745	214	.00	.00	.00	0.
1	0520	65	.00	.00	.00	8.	*	1	1750	215	.00	.00	.00	0.
1	0525	66	.00	.00	.00	7.	*	1	1755	216	.00	.00	.00	0.
1	0530	67	.00	.00	.00	6.	*	1	1800	217	.00	.00	.00	0.
1	0535	68	.00	.00	.00	6.	*	1	1805	218	.00	.00	.00	0.
1	0540	69	.00	.00	.00	5.	*	1	1810	219	.00	.00	.00	0.
1	0545	70	.00	.00	.00	5.	*	1	1815	220	.00	.00	.00	0.
1	0550	71	.00	.00	.00	4.	*	1	1820	221	.00	.00	.00	0.
1	0555	72	.00	.00	.00	4.	*	1	1825	222	.00	.00	.00	0.
1	0600	73	.00	.00	.00	4.	*	1	1830	223	.00	.00	.00	0.
1	0605	74	.00	.00	.00	3.	*	1	1835	224	.00	.00	.00	0.
1	0610	75	.00	.00	.00	3.	*	1	1840	225	.00	.00	.00	0.
1	0615	76	.00	.00	.00	3.	*	1	1845	226	.00	.00	.00	0.
1	0620	77	.00	.00	.00	3.	*	1	1850	227	.00	.00	.00	0.
1	0625	78	.00	.00	.00	2.	*	1	1855	228	.00	.00	.00	0.

1	0630	79	.00	.00	.00	2.	*	1	1900	229	.00	.00	.00	0.
1	0635	80	.00	.00	.00	2.	*	1	1905	230	.00	.00	.00	0.
1	0640	81	.00	.00	.00	2.	*	1	1910	231	.00	.00	.00	0.
1	0645	82	.00	.00	.00	2.	*	1	1915	232	.00	.00	.00	0.
1	0650	83	.00	.00	.00	2.	*	1	1920	233	.00	.00	.00	0.
1	0655	84	.00	.00	.00	1.	*	1	1925	234	.00	.00	.00	0.
1	0700	85	.00	.00	.00	1.	*	1	1930	235	.00	.00	.00	0.
1	0705	86	.00	.00	.00	1.	*	1	1935	236	.00	.00	.00	0.
1	0710	87	.00	.00	.00	1.	*	1	1940	237	.00	.00	.00	0.
1	0715	88	.00	.00	.00	1.	*	1	1945	238	.00	.00	.00	0.
1	0720	89	.00	.00	.00	1.	*	1	1950	239	.00	.00	.00	0.
1	0725	90	.00	.00	.00	1.	*	1	1955	240	.00	.00	.00	0.
1	0730	91	.00	.00	.00	1.	*	1	2000	241	.00	.00	.00	0.
1	0735	92	.00	.00	.00	1.	*	1	2005	242	.00	.00	.00	0.
1	0740	93	.00	.00	.00	1.	*	1	2010	243	.00	.00	.00	0.
1	0745	94	.00	.00	.00	0.	*	1	2015	244	.00	.00	.00	0.
1	0750	95	.00	.00	.00	0.	*	1	2020	245	.00	.00	.00	0.
1	0755	96	.00	.00	.00	0.	*	1	2025	246	.00	.00	.00	0.
1	0800	97	.00	.00	.00	0.	*	1	2030	247	.00	.00	.00	0.
1	0805	98	.00	.00	.00	0.	*	1	2035	248	.00	.00	.00	0.
1	0810	99	.00	.00	.00	0.	*	1	2040	249	.00	.00	.00	0.
1	0815	100	.00	.00	.00	0.	*	1	2045	250	.00	.00	.00	0.
1	0820	101	.00	.00	.00	0.	*	1	2050	251	.00	.00	.00	0.
1	0825	102	.00	.00	.00	0.	*	1	2055	252	.00	.00	.00	0.
1	0830	103	.00	.00	.00	0.	*	1	2100	253	.00	.00	.00	0.
1	0835	104	.00	.00	.00	0.	*	1	2105	254	.00	.00	.00	0.
1	0840	105	.00	.00	.00	0.	*	1	2110	255	.00	.00	.00	0.
1	0845	106	.00	.00	.00	0.	*	1	2115	256	.00	.00	.00	0.
1	0850	107	.00	.00	.00	0.	*	1	2120	257	.00	.00	.00	0.
1	0855	108	.00	.00	.00	0.	*	1	2125	258	.00	.00	.00	0.
1	0900	109	.00	.00	.00	0.	*	1	2130	259	.00	.00	.00	0.
1	0905	110	.00	.00	.00	0.	*	1	2135	260	.00	.00	.00	0.
1	0910	111	.00	.00	.00	0.	*	1	2140	261	.00	.00	.00	0.
1	0915	112	.00	.00	.00	0.	*	1	2145	262	.00	.00	.00	0.
1	0920	113	.00	.00	.00	0.	*	1	2150	263	.00	.00	.00	0.
1	0925	114	.00	.00	.00	0.	*	1	2155	264	.00	.00	.00	0.
1	0930	115	.00	.00	.00	0.	*	1	2200	265	.00	.00	.00	0.
1	0935	116	.00	.00	.00	0.	*	1	2205	266	.00	.00	.00	0.
1	0940	117	.00	.00	.00	0.	*	1	2210	267	.00	.00	.00	0.
1	0945	118	.00	.00	.00	0.	*	1	2215	268	.00	.00	.00	0.
1	0950	119	.00	.00	.00	0.	*	1	2220	269	.00	.00	.00	0.
1	0955	120	.00	.00	.00	0.	*	1	2225	270	.00	.00	.00	0.
1	1000	121	.00	.00	.00	0.	*	1	2230	271	.00	.00	.00	0.
1	1005	122	.00	.00	.00	0.	*	1	2235	272	.00	.00	.00	0.
1	1010	123	.00	.00	.00	0.	*	1	2240	273	.00	.00	.00	0.
1	1015	124	.00	.00	.00	0.	*	1	2245	274	.00	.00	.00	0.
1	1020	125	.00	.00	.00	0.	*	1	2250	275	.00	.00	.00	0.
1	1025	126	.00	.00	.00	0.	*	1	2255	276	.00	.00	.00	0.
1	1030	127	.00	.00	.00	0.	*	1	2300	277	.00	.00	.00	0.
1	1035	128	.00	.00	.00	0.	*	1	2305	278	.00	.00	.00	0.
1	1040	129	.00	.00	.00	0.	*	1	2310	279	.00	.00	.00	0.
1	1045	130	.00	.00	.00	0.	*	1	2315	280	.00	.00	.00	0.
1	1050	131	.00	.00	.00	0.	*	1	2320	281	.00	.00	.00	0.
1	1055	132	.00	.00	.00	0.	*	1	2325	282	.00	.00	.00	0.
1	1100	133	.00	.00	.00	0.	*	1	2330	283	.00	.00	.00	0.
1	1105	134	.00	.00	.00	0.	*	1	2335	284	.00	.00	.00	0.
1	1110	135	.00	.00	.00	0.	*	1	2340	285	.00	.00	.00	0.
1	1115	136	.00	.00	.00	0.	*	1	2345	286	.00	.00	.00	0.

1	1120	137	.00	.00	.00	0.	*	1	2350	287	.00	.00	.00	0.
1	1125	138	.00	.00	.00	0.	*	1	2355	288	.00	.00	.00	0.
1	1130	139	.00	.00	.00	0.	*	2	0000	289	.00	.00	.00	0.
1	1135	140	.00	.00	.00	0.	*	2	0005	290	.00	.00	.00	0.
1	1140	141	.00	.00	.00	0.	*	2	0010	291	.00	.00	.00	0.
1	1145	142	.00	.00	.00	0.	*	2	0015	292	.00	.00	.00	0.
1	1150	143	.00	.00	.00	0.	*	2	0020	293	.00	.00	.00	0.
1	1155	144	.00	.00	.00	0.	*	2	0025	294	.00	.00	.00	0.
1	1200	145	.00	.00	.00	0.	*	2	0030	295	.00	.00	.00	0.
1	1205	146	.00	.00	.00	0.	*	2	0035	296	.00	.00	.00	0.
1	1210	147	.00	.00	.00	0.	*	2	0040	297	.00	.00	.00	0.
1	1215	148	.00	.00	.00	0.	*	2	0045	298	.00	.00	.00	0.
1	1220	149	.00	.00	.00	0.	*	2	0050	299	.00	.00	.00	0.
1	1225	150	.00	.00	.00	0.	*	2	0055	300	.00	.00	.00	0.
							*							

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TOTAL RAINFALL = 1.19, TOTAL LOSS = 1.04, TOTAL EXCESS = .15

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
14.	4.50		4.	1.	1.	1.
		(INCHES)	.145	.150	.150	.150
		(AC-FT)	2.	2.	2.	2.

CUMULATIVE AREA = .25 SQ MI

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          **************
          *            *
104 KK    *    Node9   *
          *            *
          **************
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Route water through detention basin to remove subdivision storage

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111 KO        OUTPUT CONTROL VARIABLES
                    IPRNT          2  PRINT CONTROL
                    IPLOT          0  PLOT CONTROL
                    QSCAL         0.  HYDROGRAPH PLOT SCALE

            HYDROGRAPH ROUTING DATA

106 RS        STORAGE ROUTING
                    NSTPS          1  NUMBER OF SUBREACHES
                     ITYP       STOR  TYPE OF INITIAL CONDITION
                   RSVRIC        .00  INITIAL CONDITION
                        X        .00 WORKING R AND D COEFFICIENT

107 SV          STORAGE          .0      7.6      7.6      7.7      7.8

108 SE        ELEVATION        .00    10.00    11.00    12.00    13.00
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109 SL          LOW-LEVEL OUTLET
                     ELEVL        .00  ELEVATION AT CENTER OF OUTLET
                     CAREA       1.00  CROSS-SECTIONAL AREA
                      COQL        .60  COEFFICIENT
                      EXPL        .50  EXPONENT OF HEAD

110 SS          SPILLWAY
                      CREL      10.00  SPILLWAY CREST ELEVATION
                     SPWID      50.00  SPILLWAY WIDTH
                      COQW       2.70  WEIR COEFFICIENT
                      EXPW       1.50  EXPONENT OF HEAD
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COMPUTED OUTFLOW-ELEVATION DATA

OUTFLOW	.00	3.64	4.02	4.49	5.09	5.87	6.94	8.48	10.89	15.22
ELEVATION	.00	.57	.70	.87	1.12	1.49	2.08	3.10	5.12	10.00
OUTFLOW	15.98	21.07	34.65	60.91	104.04	168.20	257.58	376.36	528.72	718.83
ELEVATION	10.03	10.12	10.27	10.48	10.75	11.08	11.47	11.92	12.43	13.00

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	.43	.53	.66	.85	1.13	1.58	2.35	3.88	7.58
OUTFLOW	.00	3.64	4.02	4.49	5.09	5.87	6.94	8.48	10.89	15.22
ELEVATION	.00	.57	.70	.87	1.12	1.49	2.08	3.10	5.12	10.00
STORAGE	7.58	7.58	7.59	7.59	7.60	7.60	7.61	7.65	7.69	7.70
OUTFLOW	15.98	21.07	34.65	60.91	104.04	150.96	168.20	257.58	376.36	398.51
ELEVATION	10.03	10.12	10.27	10.48	10.75	11.00	11.08	11.47	11.92	12.00
STORAGE	7.74	7.80								
OUTFLOW	528.72	718.83								
ELEVATION	12.43	13.00								

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 15. TO 719.
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

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HYDROGRAPH AT STATION Node9

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DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	.0	*	1		0820	101	3.	.3	.5	*	1		1640	201	0.	.0	.0
1		0005	2	0.	.0	.0	*	1		0825	102	3.	.3	.4	*	1		1645	202	0.	.0	.0
1		0010	3	0.	.0	.0	*	1		0830	103	3.	.3	.4	*	1		1650	203	0.	.0	.0
1		0015	4	0.	.0	.0	*	1		0835	104	2.	.3	.4	*	1		1655	204	0.	.0	.0
1		0020	5	0.	.0	.0	*	1		0840	105	2.	.3	.4	*	1		1700	205	0.	.0	.0
1		0025	6	0.	.0	.0	*	1		0845	106	2.	.3	.3	*	1		1705	206	0.	.0	.0
1		0030	7	0.	.0	.0	*	1		0850	107	2.	.2	.3	*	1		1710	207	0.	.0	.0
1		0035	8	0.	.0	.0	*	1		0855	108	2.	.2	.3	*	1		1715	208	0.	.0	.0

1	0040	9	0.	.0	.0	*	1	0900	109	2.	.2	.3	*	1	1720	209	0.	.0	.0
1	0045	10	0.	.0	.0	*	1	0905	110	2.	.2	.3	*	1	1725	210	0.	.0	.0
1	0050	11	0.	.0	.0	*	1	0910	111	2.	.2	.3	*	1	1730	211	0.	.0	.0
1	0055	12	0.	.0	.0	*	1	0915	112	2.	.2	.2	*	1	1735	212	0.	.0	.0
1	0100	13	0.	.0	.0	*	1	0920	113	1.	.2	.2	*	1	1740	213	0.	.0	.0
1	0105	14	0.	.0	.0	*	1	0925	114	1.	.2	.2	*	1	1745	214	0.	.0	.0
1	0110	15	0.	.0	.0	*	1	0930	115	1.	.2	.2	*	1	1750	215	0.	.0	.0
1	0115	16	0.	.0	.0	*	1	0935	116	1.	.1	.2	*	1	1755	216	0.	.0	.0
1	0120	17	0.	.0	.0	*	1	0940	117	1.	.1	.2	*	1	1800	217	0.	.0	.0
1	0125	18	0.	.0	.0	*	1	0945	118	1.	.1	.2	*	1	1805	218	0.	.0	.0
1	0130	19	0.	.0	.0	*	1	0950	119	1.	.1	.2	*	1	1810	219	0.	.0	.0
1	0135	20	0.	.0	.0	*	1	0955	120	1.	.1	.2	*	1	1815	220	0.	.0	.0
1	0140	21	0.	.0	.0	*	1	1000	121	1.	.1	.1	*	1	1820	221	0.	.0	.0
1	0145	22	0.	.0	.0	*	1	1005	122	1.	.1	.1	*	1	1825	222	0.	.0	.0
1	0150	23	0.	.0	.0	*	1	1010	123	1.	.1	.1	*	1	1830	223	0.	.0	.0
1	0155	24	0.	.0	.0	*	1	1015	124	1.	.1	.1	*	1	1835	224	0.	.0	.0
1	0200	25	0.	.0	.0	*	1	1020	125	1.	.1	.1	*	1	1840	225	0.	.0	.0
1	0205	26	0.	.0	.0	*	1	1025	126	1.	.1	.1	*	1	1845	226	0.	.0	.0
1	0210	27	0.	.0	.1	*	1	1030	127	1.	.1	.1	*	1	1850	227	0.	.0	.0
1	0215	28	0.	.0	.1	*	1	1035	128	1.	.1	.1	*	1	1855	228	0.	.0	.0
1	0220	29	0.	.0	.1	*	1	1040	129	1.	.1	.1	*	1	1900	229	0.	.0	.0
1	0225	30	0.	.0	.1	*	1	1045	130	1.	.1	.1	*	1	1905	230	0.	.0	.0
1	0230	31	0.	.0	.1	*	1	1050	131	1.	.1	.1	*	1	1910	231	0.	.0	.0
1	0235	32	0.	.0	.1	*	1	1055	132	0.	.1	.1	*	1	1915	232	0.	.0	.0
1	0240	33	0.	.0	.1	*	1	1100	133	0.	.1	.1	*	1	1920	233	0.	.0	.0
1	0245	34	0.	.1	.1	*	1	1105	134	0.	.1	.1	*	1	1925	234	0.	.0	.0
1	0250	35	0.	.1	.1	*	1	1110	135	0.	.0	.1	*	1	1930	235	0.	.0	.0
1	0255	36	0.	.1	.1	*	1	1115	136	0.	.0	.1	*	1	1935	236	0.	.0	.0
1	0300	37	0.	.1	.1	*	1	1120	137	0.	.0	.1	*	1	1940	237	0.	.0	.0
1	0305	38	0.	.1	.1	*	1	1125	138	0.	.0	.1	*	1	1945	238	0.	.0	.0
1	0310	39	1.	.1	.1	*	1	1130	139	0.	.0	.1	*	1	1950	239	0.	.0	.0
1	0315	40	1.	.1	.1	*	1	1135	140	0.	.0	.0	*	1	1955	240	0.	.0	.0
1	0320	41	1.	.1	.1	*	1	1140	141	0.	.0	.0	*	1	2000	241	0.	.0	.0
1	0325	42	1.	.1	.1	*	1	1145	142	0.	.0	.0	*	1	2005	242	0.	.0	.0
1	0330	43	1.	.1	.1	*	1	1150	143	0.	.0	.0	*	1	2010	243	0.	.0	.0
1	0335	44	1.	.1	.1	*	1	1155	144	0.	.0	.0	*	1	2015	244	0.	.0	.0
1	0340	45	1.	.1	.1	*	1	1200	145	0.	.0	.0	*	1	2020	245	0.	.0	.0
1	0345	46	1.	.1	.1	*	1	1205	146	0.	.0	.0	*	1	2025	246	0.	.0	.0
1	0350	47	1.	.1	.1	*	1	1210	147	0.	.0	.0	*	1	2030	247	0.	.0	.0
1	0355	48	1.	.1	.2	*	1	1215	148	0.	.0	.0	*	1	2035	248	0.	.0	.0
1	0400	49	1.	.1	.2	*	1	1220	149	0.	.0	.0	*	1	2040	249	0.	.0	.0
1	0405	50	1.	.2	.2	*	1	1225	150	0.	.0	.0	*	1	2045	250	0.	.0	.0
1	0410	51	2.	.2	.3	*	1	1230	151	0.	.0	.0	*	1	2050	251	0.	.0	.0
1	0415	52	2.	.3	.4	*	1	1235	152	0.	.0	.0	*	1	2055	252	0.	.0	.0
1	0420	53	3.	.3	.4	*	1	1240	153	0.	.0	.0	*	1	2100	253	0.	.0	.0
1	0425	54	3.	.4	.5	*	1	1245	154	0.	.0	.0	*	1	2105	254	0.	.0	.0
1	0430	55	4.	.5	.6	*	1	1250	155	0.	.0	.0	*	1	2110	255	0.	.0	.0
1	0435	56	4.	.5	.7	*	1	1255	156	0.	.0	.0	*	1	2115	256	0.	.0	.0
1	0440	57	4.	.6	.8	*	1	1300	157	0.	.0	.0	*	1	2120	257	0.	.0	.0
1	0445	58	5.	.7	.9	*	1	1305	158	0.	.0	.0	*	1	2125	258	0.	.0	.0
1	0450	59	5.	.7	1.0	*	1	1310	159	0.	.0	.0	*	1	2130	259	0.	.0	.0
1	0455	60	5.	.8	1.0	*	1	1315	160	0.	.0	.0	*	1	2135	260	0.	.0	.0
1	0500	61	5.	.8	1.1	*	1	1320	161	0.	.0	.0	*	1	2140	261	0.	.0	.0
1	0505	62	5.	.8	1.1	*	1	1325	162	0.	.0	.0	*	1	2145	262	0.	.0	.0
1	0510	63	5.	.9	1.2	*	1	1330	163	0.	.0	.0	*	1	2150	263	0.	.0	.0
1	0515	64	5.	.9	1.2	*	1	1335	164	0.	.0	.0	*	1	2155	264	0.	.0	.0
1	0520	65	5.	.9	1.2	*	1	1340	165	0.	.0	.0	*	1	2200	265	0.	.0	.0
1	0525	66	5.	.9	1.2	*	1	1345	166	0.	.0	.0	*	1	2205	266	0.	.0	.0

1	0530	67	5.	.9	1.2	*	1	1350	167	0.	.0	.0	*	1	2210	267	0.	.0	.0
1	0535	68	5.	.9	1.3	*	1	1355	168	0.	.0	.0	*	1	2215	268	0.	.0	.0
1	0540	69	5.	.9	1.3	*	1	1400	169	0.	.0	.0	*	1	2220	269	0.	.0	.0
1	0545	70	5.	.9	1.2	*	1	1405	170	0.	.0	.0	*	1	2225	270	0.	.0	.0
1	0550	71	5.	.9	1.2	*	1	1410	171	0.	.0	.0	*	1	2230	271	0.	.0	.0
1	0555	72	5.	.9	1.2	*	1	1415	172	0.	.0	.0	*	1	2235	272	0.	.0	.0
1	0600	73	5.	.9	1.2	*	1	1420	173	0.	.0	.0	*	1	2240	273	0.	.0	.0
1	0605	74	5.	.9	1.2	*	1	1425	174	0.	.0	.0	*	1	2245	274	0.	.0	.0
1	0610	75	5.	.9	1.2	*	1	1430	175	0.	.0	.0	*	1	2250	275	0.	.0	.0
1	0615	76	5.	.9	1.2	*	1	1435	176	0.	.0	.0	*	1	2255	276	0.	.0	.0
1	0620	77	5.	.9	1.1	*	1	1440	177	0.	.0	.0	*	1	2300	277	0.	.0	.0
1	0625	78	5.	.9	1.1	*	1	1445	178	0.	.0	.0	*	1	2305	278	0.	.0	.0
1	0630	79	5.	.8	1.1	*	1	1450	179	0.	.0	.0	*	1	2310	279	0.	.0	.0
1	0635	80	5.	.8	1.1	*	1	1455	180	0.	.0	.0	*	1	2315	280	0.	.0	.0
1	0640	81	5.	.8	1.0	*	1	1500	181	0.	.0	.0	*	1	2320	281	0.	.0	.0
1	0645	82	5.	.8	1.0	*	1	1505	182	0.	.0	.0	*	1	2325	282	0.	.0	.0
1	0650	83	5.	.8	1.0	*	1	1510	183	0.	.0	.0	*	1	2330	283	0.	.0	.0
1	0655	84	5.	.7	1.0	*	1	1515	184	0.	.0	.0	*	1	2335	284	0.	.0	.0
1	0700	85	5.	.7	.9	*	1	1520	185	0.	.0	.0	*	1	2340	285	0.	.0	.0
1	0705	86	5.	.7	.9	*	1	1525	186	0.	.0	.0	*	1	2345	286	0.	.0	.0
1	0710	87	4.	.7	.9	*	1	1530	187	0.	.0	.0	*	1	2350	287	0.	.0	.0
1	0715	88	4.	.6	.8	*	1	1535	188	0.	.0	.0	*	1	2355	288	0.	.0	.0
1	0720	89	4.	.6	.8	*	1	1540	189	0.	.0	.0	*	2	0000	289	0.	.0	.0
1	0725	90	4.	.6	.8	*	1	1545	190	0.	.0	.0	*	2	0005	290	0.	.0	.0
1	0730	91	4.	.6	.7	*	1	1550	191	0.	.0	.0	*	2	0010	291	0.	.0	.0
1	0735	92	4.	.5	.7	*	1	1555	192	0.	.0	.0	*	2	0015	292	0.	.0	.0
1	0740	93	4.	.5	.7	*	1	1600	193	0.	.0	.0	*	2	0020	293	0.	.0	.0
1	0745	94	4.	.5	.6	*	1	1605	194	0.	.0	.0	*	2	0025	294	0.	.0	.0
1	0750	95	4.	.5	.6	*	1	1610	195	0.	.0	.0	*	2	0030	295	0.	.0	.0
1	0755	96	4.	.4	.6	*	1	1615	196	0.	.0	.0	*	2	0035	296	0.	.0	.0
1	0800	97	4.	.4	.6	*	1	1620	197	0.	.0	.0	*	2	0040	297	0.	.0	.0
1	0805	98	3.	.4	.5	*	1	1625	198	0.	.0	.0	*	2	0045	298	0.	.0	.0
1	0810	99	3.	.4	.5	*	1	1630	199	0.	.0	.0	*	2	0050	299	0.	.0	.0
1	0815	100	3.	.4	.5	*	1	1635	200	0.	.0	.0	*	2	0055	300	0.	.0	.0
						*							*						

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
5.	5.67		4.	1.	1.	1.
		(INCHES)	.134	.150	.150	.150
		(AC-FT)	2.	2.	2.	2.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
1.	5.67	1.	0.	0.	0.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
1.25	5.67	.71	.20	.19	.19

CUMULATIVE AREA = .25 SQ MI

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          *            *
112 KK    *   Node15   *
          *            *
          **************
                    confluence g1-g2-g3 with g4

115 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          2  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL         0.  HYDROGRAPH PLOT SCALE

114 HC          HYDROGRAPH COMBINATION
                     ICOMP          2  NUMBER OF HYDROGRAPHS TO COMBINE

                                                    ***

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                                    HYDROGRAPH AT STATION   Node15
                                       SUM OF  2 HYDROGRAPHS

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	10.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	10.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	10.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	9.	1		1245	154	0.	1		1900	229	0.
1		0020	5	0.	1		0635	80	9.	1		1250	155	0.	1		1905	230	0.
1		0025	6	0.	1		0640	81	8.	1		1255	156	0.	1		1910	231	0.
1		0030	7	0.	1		0645	82	8.	1		1300	157	0.	1		1915	232	0.
1		0035	8	0.	1		0650	83	8.	1		1305	158	0.	1		1920	233	0.
1		0040	9	0.	1		0655	84	7.	1		1310	159	0.	1		1925	234	0.
1		0045	10	0.	1		0700	85	7.	1		1315	160	0.	1		1930	235	0.
1		0050	11	0.	1		0705	86	7.	1		1320	161	0.	1		1935	236	0.
1		0055	12	0.	1		0710	87	6.	1		1325	162	0.	1		1940	237	0.
1		0100	13	0.	1		0715	88	6.	1		1330	163	0.	1		1945	238	0.
1		0105	14	0.	1		0720	89	6.	1		1335	164	0.	1		1950	239	0.
1		0110	15	0.	1		0725	90	6.	1		1340	165	0.	1		1955	240	0.
1		0115	16	0.	1		0730	91	5.	1		1345	166	0.	1		2000	241	0.
1		0120	17	0.	1		0735	92	5.	1		1350	167	0.	1		2005	242	0.
1		0125	18	1.	1		0740	93	5.	1		1355	168	0.	1		2010	243	0.
1		0130	19	1.	1		0745	94	5.	1		1400	169	0.	1		2015	244	0.
1		0135	20	1.	1		0750	95	5.	1		1405	170	0.	1		2020	245	0.
1		0140	21	1.	1		0755	96	4.	1		1410	171	0.	1		2025	246	0.
1		0145	22	1.	1		0800	97	4.	1		1415	172	0.	1		2030	247	0.
1		0150	23	1.	1		0805	98	4.	1		1420	173	0.	1		2035	248	0.
1		0155	24	1.	1		0810	99	4.	1		1425	174	0.	1		2040	249	0.
1		0200	25	1.	1		0815	100	3.	1		1430	175	0.	1		2045	250	0.
1		0205	26	1.	1		0820	101	3.	1		1435	176	0.	1		2050	251	0.
1		0210	27	1.	1		0825	102	3.	1		1440	177	0.	1		2055	252	0.

1	0215	28	1.	*	1	0830	103	3.	*	1	1445	178	0.	*	1	2100	253	0.
1	0220	29	1.	*	1	0835	104	3.	*	1	1450	179	0.	*	1	2105	254	0.
1	0225	30	1.	*	1	0840	105	2.	*	1	1455	180	0.	*	1	2110	255	0.
1	0230	31	1.	*	1	0845	106	2.	*	1	1500	181	0.	*	1	2115	256	0.
1	0235	32	1.	*	1	0850	107	2.	*	1	1505	182	0.	*	1	2120	257	0.
1	0240	33	1.	*	1	0855	108	2.	*	1	1510	183	0.	*	1	2125	258	0.
1	0245	34	1.	*	1	0900	109	2.	*	1	1515	184	0.	*	1	2130	259	0.
1	0250	35	1.	*	1	0905	110	2.	*	1	1520	185	0.	*	1	2135	260	0.
1	0255	36	1.	*	1	0910	111	2.	*	1	1525	186	0.	*	1	2140	261	0.
1	0300	37	1.	*	1	0915	112	2.	*	1	1530	187	0.	*	1	2145	262	0.
1	0305	38	1.	*	1	0920	113	1.	*	1	1535	188	0.	*	1	2150	263	0.
1	0310	39	1.	*	1	0925	114	1.	*	1	1540	189	0.	*	1	2155	264	0.
1	0315	40	1.	*	1	0930	115	1.	*	1	1545	190	0.	*	1	2200	265	0.
1	0320	41	1.	*	1	0935	116	1.	*	1	1550	191	0.	*	1	2205	266	0.
1	0325	42	1.	*	1	0940	117	1.	*	1	1555	192	0.	*	1	2210	267	0.
1	0330	43	2.	*	1	0945	118	1.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	2.	*	1	0950	119	1.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	2.	*	1	0955	120	1.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	2.	*	1	1000	121	1.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	2.	*	1	1005	122	1.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	3.	*	1	1010	123	1.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	3.	*	1	1015	124	1.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	4.	*	1	1020	125	1.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	5.	*	1	1025	126	1.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	6.	*	1	1030	127	1.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	8.	*	1	1035	128	1.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	12.	*	1	1040	129	1.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	16.	*	1	1045	130	1.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	19.	*	1	1050	131	1.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	21.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	22.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	22.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	22.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	22.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	21.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	20.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	19.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	18.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	17.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	16.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	15.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	14.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	13.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	12.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	12.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	11.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	11.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	11.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)					
		(CFS)				
22.	4.83		8.	2.	2.	2.
		(INCHES)	.107	.116	.116	.116
		(AC-FT)	4.	4.	4.	4.

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                    CUMULATIVE AREA =     .71 SQ MI


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          *            *
116 KK    *   Develo   *     pe rainfall for phase 2 area
          *            *
          **************
                        6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
                        THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
                       L =  .072  Kb = .064  Adj. Slope =   9.9

126 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

              SUBBASIN RUNOFF DATA

120 BA          SUBBASIN CHARACTERISTICS
                      TAREA        .04  SUBBASIN AREA

                PRECIPITATION DATA

121 PB                STORM       1.19  BASIN TOTAL PRECIPITATION

 11 PI            INCREMENTAL PRECIPITATION PATTERN
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00       .00       .01       .01       .01       .01       .01       .01       .03
                      .03       .03       .06       .06       .06       .14       .14       .14       .03       .03
                      .03       .01       .01       .01       .01       .01       .01       .00       .00       .00
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00

122 LG          GREEN AND AMPT LOSS RATE
                      STRTL        .43  STARTING LOSS
                        DTH        .25  MOISTURE DEFICIT
                       PSIF       3.50  WETTING FRONT SUCTION
                      XKSAT        .51  HYDRAULIC CONDUCTIVITY
                      RTIMP        .00  PERCENT IMPERVIOUS AREA

123 UC          CLARK UNITGRAPH
                         TC       1.00  TIME OF CONCENTRATION
                          R        .94  STORAGE COEFFICIENT

124 UA          ACCUMULATED-AREA VS. TIME,  11 ORDINATES
                        .0       5.0      16.0      30.0      65.0      77.0      84.0      90.0      94.0      97.0
                     100.0

                                                                  ***
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UNIT HYDROGRAPH PARAMETERS

CLARK TC= 1.00 HR, R= .94 HR

SNYDER TP= .59 HR, CP= .39

UNIT HYDROGRAPH

65 END-OF-PERIOD ORDINATES

1.	2.	5.	9.	14.	18.	19.	19.	18.	18.
17.	16.	15.	14.	13.	12.	11.	10.	9.	8.
7.	7.	6.	6.	5.	5.	4.	4.	4.	3.
3.	3.	3.	2.	2.	2.	2.	2.	2.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.					

****

HYDROGRAPH AT STATION Develo

****

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
								*								
1		0000	1	.00	.00	.00	0.	*	1		1230	151	.00	.00	.00	0.
1		0005	2	.00	.00	.00	0.	*	1		1235	152	.00	.00	.00	0.
1		0010	3	.00	.00	.00	0.	*	1		1240	153	.00	.00	.00	0.
1		0015	4	.00	.00	.00	0.	*	1		1245	154	.00	.00	.00	0.
1		0020	5	.00	.00	.00	0.	*	1		1250	155	.00	.00	.00	0.
1		0025	6	.00	.00	.00	0.	*	1		1255	156	.00	.00	.00	0.
1		0030	7	.00	.00	.00	0.	*	1		1300	157	.00	.00	.00	0.
1		0035	8	.00	.00	.00	0.	*	1		1305	158	.00	.00	.00	0.
1		0040	9	.00	.00	.00	0.	*	1		1310	159	.00	.00	.00	0.
1		0045	10	.00	.00	.00	0.	*	1		1315	160	.00	.00	.00	0.
1		0050	11	.00	.00	.00	0.	*	1		1320	161	.00	.00	.00	0.
1		0055	12	.00	.00	.00	0.	*	1		1325	162	.00	.00	.00	0.
1		0100	13	.00	.00	.00	0.	*	1		1330	163	.00	.00	.00	0.
1		0105	14	.00	.00	.00	0.	*	1		1335	164	.00	.00	.00	0.
1		0110	15	.00	.00	.00	0.	*	1		1340	165	.00	.00	.00	0.
1		0115	16	.00	.00	.00	0.	*	1		1345	166	.00	.00	.00	0.
1		0120	17	.00	.00	.00	0.	*	1		1350	167	.00	.00	.00	0.
1		0125	18	.00	.00	.00	0.	*	1		1355	168	.00	.00	.00	0.
1		0130	19	.00	.00	.00	0.	*	1		1400	169	.00	.00	.00	0.
1		0135	20	.00	.00	.00	0.	*	1		1405	170	.00	.00	.00	0.
1		0140	21	.00	.00	.00	0.	*	1		1410	171	.00	.00	.00	0.
1		0145	22	.00	.00	.00	0.	*	1		1415	172	.00	.00	.00	0.
1		0150	23	.00	.00	.00	0.	*	1		1420	173	.00	.00	.00	0.
1		0155	24	.00	.00	.00	0.	*	1		1425	174	.00	.00	.00	0.
1		0200	25	.00	.00	.00	0.	*	1		1430	175	.00	.00	.00	0.
1		0205	26	.00	.00	.00	0.	*	1		1435	176	.00	.00	.00	0.
1		0210	27	.00	.00	.00	0.	*	1		1440	177	.00	.00	.00	0.
1		0215	28	.00	.00	.00	0.	*	1		1445	178	.00	.00	.00	0.
1		0220	29	.01	.01	.00	0.	*	1		1450	179	.00	.00	.00	0.
1		0225	30	.01	.01	.00	0.	*	1		1455	180	.00	.00	.00	0.
1		0230	31	.01	.01	.00	0.	*	1		1500	181	.00	.00	.00	0.
1		0235	32	.00	.00	.00	0.	*	1		1505	182	.00	.00	.00	0.
1		0240	33	.00	.00	.00	0.	*	1		1510	183	.00	.00	.00	0.
1		0245	34	.00	.00	.00	0.	*	1		1515	184	.00	.00	.00	0.
1		0250	35	.01	.01	.00	0.	*	1		1520	185	.00	.00	.00	0.

1	0255	36	.01	.01	.00	0.	*	1	1525	186	.00	.00	.00	0.
1	0300	37	.01	.01	.00	0.	*	1	1530	187	.00	.00	.00	0.
1	0305	38	.01	.01	.00	0.	*	1	1535	188	.00	.00	.00	0.
1	0310	39	.01	.01	.00	0.	*	1	1540	189	.00	.00	.00	0.
1	0315	40	.01	.01	.00	0.	*	1	1545	190	.00	.00	.00	0.
1	0320	41	.03	.03	.00	0.	*	1	1550	191	.00	.00	.00	0.
1	0325	42	.03	.03	.00	0.	*	1	1555	192	.00	.00	.00	0.
1	0330	43	.03	.03	.00	0.	*	1	1600	193	.00	.00	.00	0.
1	0335	44	.07	.07	.00	0.	*	1	1605	194	.00	.00	.00	0.
1	0340	45	.07	.07	.00	0.	*	1	1610	195	.00	.00	.00	0.
1	0345	46	.07	.07	.00	0.	*	1	1615	196	.00	.00	.00	0.
1	0350	47	.16	.16	.00	0.	*	1	1620	197	.00	.00	.00	0.
1	0355	48	.16	.16	.00	0.	*	1	1625	198	.00	.00	.00	0.
1	0400	49	.16	.13	.03	0.	*	1	1630	199	.00	.00	.00	0.
1	0405	50	.04	.04	.00	0.	*	1	1635	200	.00	.00	.00	0.
1	0410	51	.04	.04	.00	0.	*	1	1640	201	.00	.00	.00	0.
1	0415	52	.04	.04	.00	0.	*	1	1645	202	.00	.00	.00	0.
1	0420	53	.01	.01	.00	0.	*	1	1650	203	.00	.00	.00	0.
1	0425	54	.01	.01	.00	1.	*	1	1655	204	.00	.00	.00	0.
1	0430	55	.01	.01	.00	1.	*	1	1700	205	.00	.00	.00	0.
1	0435	56	.01	.01	.00	1.	*	1	1705	206	.00	.00	.00	0.
1	0440	57	.01	.01	.00	1.	*	1	1710	207	.00	.00	.00	0.
1	0445	58	.01	.01	.00	1.	*	1	1715	208	.00	.00	.00	0.
1	0450	59	.00	.00	.00	0.	*	1	1720	209	.00	.00	.00	0.
1	0455	60	.00	.00	.00	0.	*	1	1725	210	.00	.00	.00	0.
1	0500	61	.00	.00	.00	0.	*	1	1730	211	.00	.00	.00	0.
1	0505	62	.00	.00	.00	0.	*	1	1735	212	.00	.00	.00	0.
1	0510	63	.00	.00	.00	0.	*	1	1740	213	.00	.00	.00	0.
1	0515	64	.00	.00	.00	0.	*	1	1745	214	.00	.00	.00	0.
1	0520	65	.00	.00	.00	0.	*	1	1750	215	.00	.00	.00	0.
1	0525	66	.00	.00	.00	0.	*	1	1755	216	.00	.00	.00	0.
1	0530	67	.00	.00	.00	0.	*	1	1800	217	.00	.00	.00	0.
1	0535	68	.00	.00	.00	0.	*	1	1805	218	.00	.00	.00	0.
1	0540	69	.00	.00	.00	0.	*	1	1810	219	.00	.00	.00	0.
1	0545	70	.00	.00	.00	0.	*	1	1815	220	.00	.00	.00	0.
1	0550	71	.00	.00	.00	0.	*	1	1820	221	.00	.00	.00	0.
1	0555	72	.00	.00	.00	0.	*	1	1825	222	.00	.00	.00	0.
1	0600	73	.00	.00	.00	0.	*	1	1830	223	.00	.00	.00	0.
1	0605	74	.00	.00	.00	0.	*	1	1835	224	.00	.00	.00	0.
1	0610	75	.00	.00	.00	0.	*	1	1840	225	.00	.00	.00	0.
1	0615	76	.00	.00	.00	0.	*	1	1845	226	.00	.00	.00	0.
1	0620	77	.00	.00	.00	0.	*	1	1850	227	.00	.00	.00	0.
1	0625	78	.00	.00	.00	0.	*	1	1855	228	.00	.00	.00	0.
1	0630	79	.00	.00	.00	0.	*	1	1900	229	.00	.00	.00	0.
1	0635	80	.00	.00	.00	0.	*	1	1905	230	.00	.00	.00	0.
1	0640	81	.00	.00	.00	0.	*	1	1910	231	.00	.00	.00	0.
1	0645	82	.00	.00	.00	0.	*	1	1915	232	.00	.00	.00	0.
1	0650	83	.00	.00	.00	0.	*	1	1920	233	.00	.00	.00	0.
1	0655	84	.00	.00	.00	0.	*	1	1925	234	.00	.00	.00	0.
1	0700	85	.00	.00	.00	0.	*	1	1930	235	.00	.00	.00	0.
1	0705	86	.00	.00	.00	0.	*	1	1935	236	.00	.00	.00	0.
1	0710	87	.00	.00	.00	0.	*	1	1940	237	.00	.00	.00	0.
1	0715	88	.00	.00	.00	0.	*	1	1945	238	.00	.00	.00	0.
1	0720	89	.00	.00	.00	0.	*	1	1950	239	.00	.00	.00	0.
1	0725	90	.00	.00	.00	0.	*	1	1955	240	.00	.00	.00	0.
1	0730	91	.00	.00	.00	0.	*	1	2000	241	.00	.00	.00	0.
1	0735	92	.00	.00	.00	0.	*	1	2005	242	.00	.00	.00	0.
1	0740	93	.00	.00	.00	0.	*	1	2010	243	.00	.00	.00	0.

1	0745	94	.00	.00	.00	0.	*	1	2015	244	.00	.00	.00	0.
1	0750	95	.00	.00	.00	0.	*	1	2020	245	.00	.00	.00	0.
1	0755	96	.00	.00	.00	0.	*	1	2025	246	.00	.00	.00	0.
1	0800	97	.00	.00	.00	0.	*	1	2030	247	.00	.00	.00	0.
1	0805	98	.00	.00	.00	0.	*	1	2035	248	.00	.00	.00	0.
1	0810	99	.00	.00	.00	0.	*	1	2040	249	.00	.00	.00	0.
1	0815	100	.00	.00	.00	0.	*	1	2045	250	.00	.00	.00	0.
1	0820	101	.00	.00	.00	0.	*	1	2050	251	.00	.00	.00	0.
1	0825	102	.00	.00	.00	0.	*	1	2055	252	.00	.00	.00	0.
1	0830	103	.00	.00	.00	0.	*	1	2100	253	.00	.00	.00	0.
1	0835	104	.00	.00	.00	0.	*	1	2105	254	.00	.00	.00	0.
1	0840	105	.00	.00	.00	0.	*	1	2110	255	.00	.00	.00	0.
1	0845	106	.00	.00	.00	0.	*	1	2115	256	.00	.00	.00	0.
1	0850	107	.00	.00	.00	0.	*	1	2120	257	.00	.00	.00	0.
1	0855	108	.00	.00	.00	0.	*	1	2125	258	.00	.00	.00	0.
1	0900	109	.00	.00	.00	0.	*	1	2130	259	.00	.00	.00	0.
1	0905	110	.00	.00	.00	0.	*	1	2135	260	.00	.00	.00	0.
1	0910	111	.00	.00	.00	0.	*	1	2140	261	.00	.00	.00	0.
1	0915	112	.00	.00	.00	0.	*	1	2145	262	.00	.00	.00	0.
1	0920	113	.00	.00	.00	0.	*	1	2150	263	.00	.00	.00	0.
1	0925	114	.00	.00	.00	0.	*	1	2155	264	.00	.00	.00	0.
1	0930	115	.00	.00	.00	0.	*	1	2200	265	.00	.00	.00	0.
1	0935	116	.00	.00	.00	0.	*	1	2205	266	.00	.00	.00	0.
1	0940	117	.00	.00	.00	0.	*	1	2210	267	.00	.00	.00	0.
1	0945	118	.00	.00	.00	0.	*	1	2215	268	.00	.00	.00	0.
1	0950	119	.00	.00	.00	0.	*	1	2220	269	.00	.00	.00	0.
1	0955	120	.00	.00	.00	0.	*	1	2225	270	.00	.00	.00	0.
1	1000	121	.00	.00	.00	0.	*	1	2230	271	.00	.00	.00	0.
1	1005	122	.00	.00	.00	0.	*	1	2235	272	.00	.00	.00	0.
1	1010	123	.00	.00	.00	0.	*	1	2240	273	.00	.00	.00	0.
1	1015	124	.00	.00	.00	0.	*	1	2245	274	.00	.00	.00	0.
1	1020	125	.00	.00	.00	0.	*	1	2250	275	.00	.00	.00	0.
1	1025	126	.00	.00	.00	0.	*	1	2255	276	.00	.00	.00	0.
1	1030	127	.00	.00	.00	0.	*	1	2300	277	.00	.00	.00	0.
1	1035	128	.00	.00	.00	0.	*	1	2305	278	.00	.00	.00	0.
1	1040	129	.00	.00	.00	0.	*	1	2310	279	.00	.00	.00	0.
1	1045	130	.00	.00	.00	0.	*	1	2315	280	.00	.00	.00	0.
1	1050	131	.00	.00	.00	0.	*	1	2320	281	.00	.00	.00	0.
1	1055	132	.00	.00	.00	0.	*	1	2325	282	.00	.00	.00	0.
1	1100	133	.00	.00	.00	0.	*	1	2330	283	.00	.00	.00	0.
1	1105	134	.00	.00	.00	0.	*	1	2335	284	.00	.00	.00	0.
1	1110	135	.00	.00	.00	0.	*	1	2340	285	.00	.00	.00	0.
1	1115	136	.00	.00	.00	0.	*	1	2345	286	.00	.00	.00	0.
1	1120	137	.00	.00	.00	0.	*	1	2350	287	.00	.00	.00	0.
1	1125	138	.00	.00	.00	0.	*	1	2355	288	.00	.00	.00	0.
1	1130	139	.00	.00	.00	0.	*	2	0000	289	.00	.00	.00	0.
1	1135	140	.00	.00	.00	0.	*	2	0005	290	.00	.00	.00	0.
1	1140	141	.00	.00	.00	0.	*	2	0010	291	.00	.00	.00	0.
1	1145	142	.00	.00	.00	0.	*	2	0015	292	.00	.00	.00	0.
1	1150	143	.00	.00	.00	0.	*	2	0020	293	.00	.00	.00	0.
1	1155	144	.00	.00	.00	0.	*	2	0025	294	.00	.00	.00	0.
1	1200	145	.00	.00	.00	0.	*	2	0030	295	.00	.00	.00	0.
1	1205	146	.00	.00	.00	0.	*	2	0035	296	.00	.00	.00	0.
1	1210	147	.00	.00	.00	0.	*	2	0040	297	.00	.00	.00	0.
1	1215	148	.00	.00	.00	0.	*	2	0045	298	.00	.00	.00	0.
1	1220	149	.00	.00	.00	0.	*	2	0050	299	.00	.00	.00	0.
1	1225	150	.00	.00	.00	0.	*	2	0055	300	.00	.00	.00	0.
							*							

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*****************************************************************************************************************************

   TOTAL RAINFALL =    1.19, TOTAL LOSS =    1.16, TOTAL EXCESS =     .03

 PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                     6-HR       24-HR       72-HR     24.92-HR
  (CFS)       (HR)
                          (CFS)
     1.       4.50                   0.          0.          0.          0.
                        (INCHES)    .029        .029        .029        .029
                         (AC-FT)     0.          0.          0.          0.

                         CUMULATIVE AREA =     .04 SQ MI


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


          **************
          *            *
 127 KK   *   Conflu   *     ence g1-g4 with phase 2
          *            *
          **************

 129 KO          OUTPUT CONTROL VARIABLES
                       IPRNT          2  PRINT CONTROL
                       IPLOT          0  PLOT CONTROL
                       QSCAL         0.  HYDROGRAPH PLOT SCALE

 128 HC          HYDROGRAPH COMBINATION
                       ICOMP          2  NUMBER OF HYDROGRAPHS TO COMBINE

                                                        ***

*****************************************************************************************************************************

                                          HYDROGRAPH AT STATION   Conflu
                                               SUM OF  2 HYDROGRAPHS

*****************************************************************************************************************************
                                 *                                 *                                 *
  DA MON HRMN  ORD      FLOW     *  DA MON HRMN  ORD      FLOW     *  DA MON HRMN  ORD      FLOW     *  DA MON HRMN  ORD      FLOW
                                 *                                 *                                 *
   1    0000   1        0.      *   1    0615   76       10.      *   1    1230  151        0.      *   1    1845  226        0.
   1    0005   2        0.      *   1    0620   77       10.      *   1    1235  152        0.      *   1    1850  227        0.
   1    0010   3        0.      *   1    0625   78       10.      *   1    1240  153        0.      *   1    1855  228        0.
   1    0015   4        0.      *   1    0630   79        9.      *   1    1245  154        0.      *   1    1900  229        0.
   1    0020   5        0.      *   1    0635   80        9.      *   1    1250  155        0.      *   1    1905  230        0.
   1    0025   6        0.      *   1    0640   81        8.      *   1    1255  156        0.      *   1    1910  231        0.
   1    0030   7        0.      *   1    0645   82        8.      *   1    1300  157        0.      *   1    1915  232        0.
   1    0035   8        0.      *   1    0650   83        8.      *   1    1305  158        0.      *   1    1920  233        0.
   1    0040   9        0.      *   1    0655   84        7.      *   1    1310  159        0.      *   1    1925  234        0.
   1    0045  10        0.      *   1    0700   85        7.      *   1    1315  160        0.      *   1    1930  235        0.
   1    0050  11        0.      *   1    0705   86        7.      *   1    1320  161        0.      *   1    1935  236        0.
   1    0055  12        0.      *   1    0710   87        6.      *   1    1325  162        0.      *   1    1940  237        0.
   1    0100  13        0.      *   1    0715   88        6.      *   1    1330  163        0.      *   1    1945  238        0.
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1	0105	14	0.	*	1	0720	89	6.	*	1	1335	164	0.	*	1	1950	239	0.
1	0110	15	0.	*	1	0725	90	6.	*	1	1340	165	0.	*	1	1955	240	0.
1	0115	16	0.	*	1	0730	91	5.	*	1	1345	166	0.	*	1	2000	241	0.
1	0120	17	0.	*	1	0735	92	5.	*	1	1350	167	0.	*	1	2005	242	0.
1	0125	18	1.	*	1	0740	93	5.	*	1	1355	168	0.	*	1	2010	243	0.
1	0130	19	1.	*	1	0745	94	5.	*	1	1400	169	0.	*	1	2015	244	0.
1	0135	20	1.	*	1	0750	95	5.	*	1	1405	170	0.	*	1	2020	245	0.
1	0140	21	1.	*	1	0755	96	4.	*	1	1410	171	0.	*	1	2025	246	0.
1	0145	22	1.	*	1	0800	97	4.	*	1	1415	172	0.	*	1	2030	247	0.
1	0150	23	1.	*	1	0805	98	4.	*	1	1420	173	0.	*	1	2035	248	0.
1	0155	24	1.	*	1	0810	99	4.	*	1	1425	174	0.	*	1	2040	249	0.
1	0200	25	1.	*	1	0815	100	3.	*	1	1430	175	0.	*	1	2045	250	0.
1	0205	26	1.	*	1	0820	101	3.	*	1	1435	176	0.	*	1	2050	251	0.
1	0210	27	1.	*	1	0825	102	3.	*	1	1440	177	0.	*	1	2055	252	0.
1	0215	28	1.	*	1	0830	103	3.	*	1	1445	178	0.	*	1	2100	253	0.
1	0220	29	1.	*	1	0835	104	3.	*	1	1450	179	0.	*	1	2105	254	0.
1	0225	30	1.	*	1	0840	105	2.	*	1	1455	180	0.	*	1	2110	255	0.
1	0230	31	1.	*	1	0845	106	2.	*	1	1500	181	0.	*	1	2115	256	0.
1	0235	32	1.	*	1	0850	107	2.	*	1	1505	182	0.	*	1	2120	257	0.
1	0240	33	1.	*	1	0855	108	2.	*	1	1510	183	0.	*	1	2125	258	0.
1	0245	34	1.	*	1	0900	109	2.	*	1	1515	184	0.	*	1	2130	259	0.
1	0250	35	1.	*	1	0905	110	2.	*	1	1520	185	0.	*	1	2135	260	0.
1	0255	36	1.	*	1	0910	111	2.	*	1	1525	186	0.	*	1	2140	261	0.
1	0300	37	1.	*	1	0915	112	2.	*	1	1530	187	0.	*	1	2145	262	0.
1	0305	38	1.	*	1	0920	113	2.	*	1	1535	188	0.	*	1	2150	263	0.
1	0310	39	1.	*	1	0925	114	1.	*	1	1540	189	0.	*	1	2155	264	0.
1	0315	40	1.	*	1	0930	115	1.	*	1	1545	190	0.	*	1	2200	265	0.
1	0320	41	1.	*	1	0935	116	1.	*	1	1550	191	0.	*	1	2205	266	0.
1	0325	42	1.	*	1	0940	117	1.	*	1	1555	192	0.	*	1	2210	267	0.
1	0330	43	2.	*	1	0945	118	1.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	2.	*	1	0950	119	1.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	2.	*	1	0955	120	1.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	2.	*	1	1000	121	1.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	2.	*	1	1005	122	1.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	3.	*	1	1010	123	1.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	3.	*	1	1015	124	1.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	4.	*	1	1020	125	1.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	5.	*	1	1025	126	1.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	6.	*	1	1030	127	1.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	9.	*	1	1035	128	1.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	13.	*	1	1040	129	1.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	17.	*	1	1045	130	1.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	19.	*	1	1050	131	1.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	21.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	22.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	23.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	23.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	22.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	21.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	20.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	19.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	18.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	17.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	16.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	15.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	14.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	13.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	12.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.

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 1    0555  72    12.  *  1    1210  147    0.  *  1    1825  222    0.  *  2    0040  297    0.
 1    0600  73    12.  *  1    1215  148    0.  *  1    1830  223    0.  *  2    0045  298    0.
 1    0605  74    11.  *  1    1220  149    0.  *  1    1835  224    0.  *  2    0050  299    0.
 1    0610  75    11.  *  1    1225  150    0.  *  1    1840  225    0.  *  2    0055  300    0.
                       *                         *                         *
*****************************************************************************************************

PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                   6-HR       24-HR       72-HR     24.92-HR
 (CFS)       (HR)
                        (CFS)
   23.       4.83                  8.          2.          2.          2.
                      (INCHES)    .103        .111        .111        .111
                       (AC-FT)      4.          5.          5.          5.

                      CUMULATIVE AREA =     .76 SQ MI


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


          **************
          *            *
130 KK    *   Route    *     water through existing topography in Phase 2 and close flapgates on culv
          *            *
          **************

136 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          2  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL         0.  HYDROGRAPH PLOT SCALE

             HYDROGRAPH ROUTING DATA

131 RS          STORAGE ROUTING
                     NSTPS          1  NUMBER OF SUBREACHES
                      ITYP       STOR  TYPE OF INITIAL CONDITION
                    RSVRIC        .00  INITIAL CONDITION
                         X        .00 WORKING R AND D COEFFICIENT

132 SV            STORAGE         .0       2.5       6.1      12.2      20.9

133 SE          ELEVATION     974.00    976.00    977.00    978.00    979.00

134 SQ          DISCHARGE         0.        0.        0.        0.        0.

135 SE          ELEVATION     974.00    976.00    977.00    978.00    979.00

                                                                 ***

                                          COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

          STORAGE       .00      2.50      6.12     12.21     20.88
          OUTFLOW       .00       .00       .00       .00       .00
        ELEVATION    974.00    976.00    977.00    978.00    979.00
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HYDROGRAPH AT STATION Route

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	974.0	1		0820	101	0.	4.1	976.5	1		1640	201	0.	4.5	976.6
1		0005	2	0.	.0	974.0	1		0825	102	0.	4.2	976.5	1		1645	202	0.	4.5	976.6
1		0010	3	0.	.0	974.0	1		0830	103	0.	4.2	976.5	1		1650	203	0.	4.5	976.6
1		0015	4	0.	.0	974.0	1		0835	104	0.	4.2	976.5	1		1655	204	0.	4.5	976.6
1		0020	5	0.	.0	974.0	1		0840	105	0.	4.2	976.5	1		1700	205	0.	4.5	976.6
1		0025	6	0.	.0	974.0	1		0845	106	0.	4.2	976.5	1		1705	206	0.	4.5	976.6
1		0030	7	0.	.0	974.0	1		0850	107	0.	4.3	976.5	1		1710	207	0.	4.5	976.6
1		0035	8	0.	.0	974.0	1		0855	108	0.	4.3	976.5	1		1715	208	0.	4.5	976.6
1		0040	9	0.	.0	974.0	1		0900	109	0.	4.3	976.5	1		1720	209	0.	4.5	976.6
1		0045	10	0.	.0	974.0	1		0905	110	0.	4.3	976.5	1		1725	210	0.	4.5	976.6
1		0050	11	0.	.0	974.0	1		0910	111	0.	4.3	976.5	1		1730	211	0.	4.5	976.6
1		0055	12	0.	.0	974.0	1		0915	112	0.	4.3	976.5	1		1735	212	0.	4.5	976.6
1		0100	13	0.	.0	974.0	1		0920	113	0.	4.3	976.5	1		1740	213	0.	4.5	976.6
1		0105	14	0.	.0	974.0	1		0925	114	0.	4.3	976.5	1		1745	214	0.	4.5	976.6
1		0110	15	0.	.0	974.0	1		0930	115	0.	4.3	976.5	1		1750	215	0.	4.5	976.6
1		0115	16	0.	.0	974.0	1		0935	116	0.	4.4	976.5	1		1755	216	0.	4.5	976.6
1		0120	17	0.	.0	974.0	1		0940	117	0.	4.4	976.5	1		1800	217	0.	4.5	976.6
1		0125	18	0.	.0	974.0	1		0945	118	0.	4.4	976.5	1		1805	218	0.	4.5	976.6
1		0130	19	0.	.0	974.0	1		0950	119	0.	4.4	976.5	1		1810	219	0.	4.5	976.6
1		0135	20	0.	.0	974.0	1		0955	120	0.	4.4	976.5	1		1815	220	0.	4.5	976.6
1		0140	21	0.	.0	974.0	1		1000	121	0.	4.4	976.5	1		1820	221	0.	4.5	976.6
1		0145	22	0.	.0	974.0	1		1005	122	0.	4.4	976.5	1		1825	222	0.	4.5	976.6
1		0150	23	0.	.0	974.0	1		1010	123	0.	4.4	976.5	1		1830	223	0.	4.5	976.6
1		0155	24	0.	.0	974.0	1		1015	124	0.	4.4	976.5	1		1835	224	0.	4.5	976.6
1		0200	25	0.	.1	974.0	1		1020	125	0.	4.4	976.5	1		1840	225	0.	4.5	976.6
1		0205	26	0.	.1	974.0	1		1025	126	0.	4.4	976.5	1		1845	226	0.	4.5	976.6
1		0210	27	0.	.1	974.1	1		1030	127	0.	4.4	976.5	1		1850	227	0.	4.5	976.6
1		0215	28	0.	.1	974.1	1		1035	128	0.	4.4	976.5	1		1855	228	0.	4.5	976.6
1		0220	29	0.	.1	974.1	1		1040	129	0.	4.4	976.5	1		1900	229	0.	4.5	976.6
1		0225	30	0.	.1	974.1	1		1045	130	0.	4.4	976.5	1		1905	230	0.	4.5	976.6
1		0230	31	0.	.1	974.1	1		1050	131	0.	4.4	976.5	1		1910	231	0.	4.5	976.6
1		0235	32	0.	.1	974.1	1		1055	132	0.	4.4	976.5	1		1915	232	0.	4.5	976.6
1		0240	33	0.	.1	974.1	1		1100	133	0.	4.5	976.5	1		1920	233	0.	4.5	976.6
1		0245	34	0.	.1	974.1	1		1105	134	0.	4.5	976.5	1		1925	234	0.	4.5	976.6
1		0250	35	0.	.1	974.1	1		1110	135	0.	4.5	976.5	1		1930	235	0.	4.5	976.6
1		0255	36	0.	.1	974.1	1		1115	136	0.	4.5	976.5	1		1935	236	0.	4.5	976.6
1		0300	37	0.	.1	974.1	1		1120	137	0.	4.5	976.5	1		1940	237	0.	4.5	976.6
1		0305	38	0.	.1	974.1	1		1125	138	0.	4.5	976.5	1		1945	238	0.	4.5	976.6
1		0310	39	0.	.2	974.1	1		1130	139	0.	4.5	976.5	1		1950	239	0.	4.5	976.6
1		0315	40	0.	.2	974.1	1		1135	140	0.	4.5	976.5	1		1955	240	0.	4.5	976.6
1		0320	41	0.	.2	974.1	1		1140	141	0.	4.5	976.5	1		2000	241	0.	4.5	976.6
1		0325	42	0.	.2	974.1	1		1145	142	0.	4.5	976.5	1		2005	242	0.	4.5	976.6
1		0330	43	0.	.2	974.2	1		1150	143	0.	4.5	976.5	1		2010	243	0.	4.5	976.6
1		0335	44	0.	.2	974.2	1		1155	144	0.	4.5	976.5	1		2015	244	0.	4.5	976.6
1		0340	45	0.	.2	974.2	1		1200	145	0.	4.5	976.5	1		2020	245	0.	4.5	976.6
1		0345	46	0.	.2	974.2	1		1205	146	0.	4.5	976.5	1		2025	246	0.	4.5	976.6
1		0350	47	0.	.2	974.2	1		1210	147	0.	4.5	976.5	1		2030	247	0.	4.5	976.6
1		0355	48	0.	.3	974.2	1		1215	148	0.	4.5	976.5	1		2035	248	0.	4.5	976.6
1		0400	49	0.	.3	974.2	1		1220	149	0.	4.5	976.5	1		2040	249	0.	4.5	976.6
1		0405	50	0.	.3	974.2	1		1225	150	0.	4.5	976.5	1		2045	250	0.	4.5	976.6

1	0410	51	0.	.3	974.3	*	1	1230	151	0.	4.5	976.5	*	1	2050	251	0.	4.5	976.6
1	0415	52	0.	.4	974.3	*	1	1235	152	0.	4.5	976.5	*	1	2055	252	0.	4.5	976.6
1	0420	53	0.	.4	974.3	*	1	1240	153	0.	4.5	976.5	*	1	2100	253	0.	4.5	976.6
1	0425	54	0.	.5	974.4	*	1	1245	154	0.	4.5	976.5	*	1	2105	254	0.	4.5	976.6
1	0430	55	0.	.6	974.5	*	1	1250	155	0.	4.5	976.5	*	1	2110	255	0.	4.5	976.6
1	0435	56	0.	.7	974.6	*	1	1255	156	0.	4.5	976.5	*	1	2115	256	0.	4.5	976.6
1	0440	57	0.	.9	974.7	*	1	1300	157	0.	4.5	976.6	*	1	2120	257	0.	4.5	976.6
1	0445	58	0.	1.0	974.8	*	1	1305	158	0.	4.5	976.6	*	1	2125	258	0.	4.5	976.6
1	0450	59	0.	1.2	974.9	*	1	1310	159	0.	4.5	976.6	*	1	2130	259	0.	4.5	976.6
1	0455	60	0.	1.3	975.1	*	1	1315	160	0.	4.5	976.6	*	1	2135	260	0.	4.5	976.6
1	0500	61	0.	1.5	975.2	*	1	1320	161	0.	4.5	976.6	*	1	2140	261	0.	4.5	976.6
1	0505	62	0.	1.6	975.3	*	1	1325	162	0.	4.5	976.6	*	1	2145	262	0.	4.5	976.6
1	0510	63	0.	1.8	975.4	*	1	1330	163	0.	4.5	976.6	*	1	2150	263	0.	4.5	976.6
1	0515	64	0.	1.9	975.5	*	1	1335	164	0.	4.5	976.6	*	1	2155	264	0.	4.5	976.6
1	0520	65	0.	2.0	975.6	*	1	1340	165	0.	4.5	976.6	*	1	2200	265	0.	4.5	976.6
1	0525	66	0.	2.2	975.7	*	1	1345	166	0.	4.5	976.6	*	1	2205	266	0.	4.5	976.6
1	0530	67	0.	2.3	975.8	*	1	1350	167	0.	4.5	976.6	*	1	2210	267	0.	4.5	976.6
1	0535	68	0.	2.4	975.9	*	1	1355	168	0.	4.5	976.6	*	1	2215	268	0.	4.5	976.6
1	0540	69	0.	2.5	976.0	*	1	1400	169	0.	4.5	976.6	*	1	2220	269	0.	4.5	976.6
1	0545	70	0.	2.6	976.0	*	1	1405	170	0.	4.5	976.6	*	1	2225	270	0.	4.5	976.6
1	0550	71	0.	2.7	976.0	*	1	1410	171	0.	4.5	976.6	*	1	2230	271	0.	4.5	976.6
1	0555	72	0.	2.7	976.1	*	1	1415	172	0.	4.5	976.6	*	1	2235	272	0.	4.5	976.6
1	0600	73	0.	2.8	976.1	*	1	1420	173	0.	4.5	976.6	*	1	2240	273	0.	4.5	976.6
1	0605	74	0.	2.9	976.1	*	1	1425	174	0.	4.5	976.6	*	1	2245	274	0.	4.5	976.6
1	0610	75	0.	3.0	976.1	*	1	1430	175	0.	4.5	976.6	*	1	2250	275	0.	4.5	976.6
1	0615	76	0.	3.1	976.2	*	1	1435	176	0.	4.5	976.6	*	1	2255	276	0.	4.5	976.6
1	0620	77	0.	3.1	976.2	*	1	1440	177	0.	4.5	976.6	*	1	2300	277	0.	4.5	976.6
1	0625	78	0.	3.2	976.2	*	1	1445	178	0.	4.5	976.6	*	1	2305	278	0.	4.5	976.6
1	0630	79	0.	3.3	976.2	*	1	1450	179	0.	4.5	976.6	*	1	2310	279	0.	4.5	976.6
1	0635	80	0.	3.3	976.2	*	1	1455	180	0.	4.5	976.6	*	1	2315	280	0.	4.5	976.6
1	0640	81	0.	3.4	976.2	*	1	1500	181	0.	4.5	976.6	*	1	2320	281	0.	4.5	976.6
1	0645	82	0.	3.4	976.3	*	1	1505	182	0.	4.5	976.6	*	1	2325	282	0.	4.5	976.6
1	0650	83	0.	3.5	976.3	*	1	1510	183	0.	4.5	976.6	*	1	2330	283	0.	4.5	976.6
1	0655	84	0.	3.5	976.3	*	1	1515	184	0.	4.5	976.6	*	1	2335	284	0.	4.5	976.6
1	0700	85	0.	3.6	976.3	*	1	1520	185	0.	4.5	976.6	*	1	2340	285	0.	4.5	976.6
1	0705	86	0.	3.6	976.3	*	1	1525	186	0.	4.5	976.6	*	1	2345	286	0.	4.5	976.6
1	0710	87	0.	3.7	976.3	*	1	1530	187	0.	4.5	976.6	*	1	2350	287	0.	4.5	976.6
1	0715	88	0.	3.7	976.3	*	1	1535	188	0.	4.5	976.6	*	1	2355	288	0.	4.5	976.6
1	0720	89	0.	3.8	976.4	*	1	1540	189	0.	4.5	976.6	*	2	0000	289	0.	4.5	976.6
1	0725	90	0.	3.8	976.4	*	1	1545	190	0.	4.5	976.6	*	2	0005	290	0.	4.5	976.6
1	0730	91	0.	3.8	976.4	*	1	1550	191	0.	4.5	976.6	*	2	0010	291	0.	4.5	976.6
1	0735	92	0.	3.9	976.4	*	1	1555	192	0.	4.5	976.6	*	2	0015	292	0.	4.5	976.6
1	0740	93	0.	3.9	976.4	*	1	1600	193	0.	4.5	976.6	*	2	0020	293	0.	4.5	976.6
1	0745	94	0.	4.0	976.4	*	1	1605	194	0.	4.5	976.6	*	2	0025	294	0.	4.5	976.6
1	0750	95	0.	4.0	976.4	*	1	1610	195	0.	4.5	976.6	*	2	0030	295	0.	4.5	976.6
1	0755	96	0.	4.0	976.4	*	1	1615	196	0.	4.5	976.6	*	2	0035	296	0.	4.5	976.6
1	0800	97	0.	4.0	976.4	*	1	1620	197	0.	4.5	976.6	*	2	0040	297	0.	4.5	976.6
1	0805	98	0.	4.1	976.4	*	1	1625	198	0.	4.5	976.6	*	2	0045	298	0.	4.5	976.6
1	0810	99	0.	4.1	976.4	*	1	1630	199	0.	4.5	976.6	*	2	0050	299	0.	4.5	976.6
1	0815	100	0.	4.1	976.4	*	1	1635	200	0.	4.5	976.6	*	2	0055	300	0.	4.5	976.6
						*							*						

****

PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW (CFS) 6-HR	24-HR	72-HR	24.92-HR
0.	.08	0.	0.	0.	0.

	(INCHES)	.000	.000	.000	.000
	(AC-FT)	0.	0.	0.	0.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
(AC-FT)	(HR)				
5.	17.33	5.	4.	3.	3.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
(FEET)	(HR)				
976.55	20.92	976.55	976.09	976.01	976.01

CUMULATIVE AREA = .76 SQ MI

RUNOFF SUMMARY
FLOW IN CUBIC FEET PER SECOND
TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD 6-HOUR	24-HOUR	72-HOUR	BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
HYDROGRAPH AT	DEVELO	19.	4.50	5.	1.	1.	.41		
ROUTED TO	Node17	19.	4.50	5.	1.	1.	.41	77.93	4.50
ROUTED TO	Node10	18.	4.58	5.	1.	1.	.41	6.71	4.58
HYDROGRAPH AT	DEVELO	5.	4.42	2.	0.	0.	.04		
ROUTED TO	Node7	0.	.08	0.	0.	0.	.04		
2 COMBINED AT	Node11	18.	4.58	5.	1.	1.	.45		
ROUTED TO	Node10	18.	4.75	5.	1.	1.	.45	6.69	4.75
HYDROGRAPH AT	DEVELO	1.	4.42	0.	0.	0.	.01		
ROUTED TO	Node8	0.	.08	0.	0.	0.	.01		
2 COMBINED AT	Node13	18.	4.75	5.	1.	1.	.46		
ROUTED TO	Node10	18.	4.83	5.	1.	1.	.46	6.68	4.83
HYDROGRAPH AT	DEVELO	14.	4.50	4.	1.	1.	.25		
ROUTED TO	Node9	5.	5.67	4.	1.	1.	.25	1.25	5.67
2 COMBINED AT	Node15	22.	4.83	8.	2.	2.	.71		
HYDROGRAPH AT	Develo	1.	4.50	0.	0.	0.	.04		

2 COMBINED AT									
	Conflu	23.	4.83	8.	2.	2.	.76		
ROUTED TO									
	Route	0.	.08	0.	0.	0.	.76		
								976.55	20.92

*** NORMAL END OF HEC-1 ***

```
*****************************************
*                                       *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
*            SEPTEMBER 1990             *
*             VERSION 4.0               *
*                                       *
*  RUN DATE  10/16/1997  TIME  09:53:48 *
*                                       *
*****************************************
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****************************************
*                                      *
*    U.S. ARMY CORPS OF ENGINEERS      *
*    HYDROLOGIC ENGINEERING CENTER     *
*          609 SECOND STREET           *
*       DAVIS, CALIFORNIA 95616        *
*           (916) 756-1104             *
*                                      *
****************************************
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```
X     X  XXXXXXX   XXXXX          X
X     X  X       X     X        XX
X     X  X       X              X
XXXXXXX  XXXX    X       XXXXX  X
X     X  X       X              X
X     X  X       X     X        X
X     X  XXXXXXX   XXXXX        XXX
```

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

MODEL #4 - Phase 2 Proposed Channel 10-Year

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  1           ID       Model # 4
  2           IT       5                    300
  3           IO       2

  4           KK  DEVELOP RAINFALL FOR BASIN G1
  5           KM   6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
  6           KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
  7           KM  L = 1.17  Kb = .050  Adj. Slope =   21.3
  8           BA    .413
  9           PB   1.989
 10           IN      15
 11           PC    .000    .008    .016    .025    .033    .041    .050    .058    .066    .074
 12           PC    .087    .099    .119    .138    .216    .377    .834    .911    .931    .950
 13           PC    .962    .973    .983    .991   1.000
 14           LG    .430    .255   3.500    .515   7.000
 15           UC   1.354    .985
 16           UA       0       5      16      30      65      77      84      90      94      97
 17           UA     100
 18           KO       2

 19           KK  Node17
 20           KM  basin routing through transfer pipe culverts
 21           RS       1    STOR       0       0
 22           SV       0     .02     .11      .2    1.79    3.38    7.57   13.81
 23           SE   77.82      78      79      80      81      82      83      84
 24           SL   77.82   15.70      .6      .5
 25           SS   83.80      15       3     1.5
 26           KO       2

 27           KK  Node10
 28           KM  Route water from culverts to middle of subdivision
 29           RS       1    STOR       0       0
 30           RC    .035    .035    .035     650   .0022      15
 31           RX       0      20     120   136.6   146.6   162.2   262.2   282.2
 32           RY      15      11      10    5.85    5.85      10      11      15
 33           KO       2

 34           KK  DEVELOPE RAINFALL FOR SUBBASIN G2
 35           KM   6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
 36           KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
 37           KM  L =  .41  Kb = .064  Adj. Slope =   48.9
 38           BA    .040
 39           PB   1.989
 40           LG    .430    .255   3.500   0.515  30.000
 41           UC    .458    .477
 42           UA       0       5      16      30      65      77      84      90      94      97
 43           UA     100
 44           KO       2

 45           KK  Node7
 46           KM  Route flow through basin to remove developed area storage
 47           RS       1    STOR       0       0
 48           SV       0    2.13    2.15    2.16    2.17    2.18    2.19    2.20    2.25     2.5
 49           SV    2.75
```

50	sq	0	0	20	30	40	50	60	70	100	150

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  51          SQ     200
  52          KO       2

  53          KK  Node11
  54          KM  conflunce g1 and g2
  55          HC       2
  56          KO       2

  57          KK  Node10
  58          KM  Route water from culverts to middle of subdivision
  59          RS       1    STOR       0       0
  60          RC    .035    .035    .035     650   .0022      15
  61          RX       0      20     120   136.6   146.6   162.2   262.2   282.2
  62          RY      15      11      10    5.85    5.85      10      11      15
  63          KO       2

  64          KK  DEVELOPE RAINFALL FOR G3
  65          KM   6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
  66          KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
  67          KM  L =  .30  Kb = .072  Adj. Slope =   60.9
  68          BA    .010
  69          PB   1.989
  70          LG    .430    .255   3.500    .515  30.000
  71          UC    .296    .498
  72          UA       0       5      16      30      65      77      84 .    90      94      97
  73          UA     100
  74          KO       2

  75          KK  Node8
  76          KM  Route area through subdivision to remove retention storage
  77          RS       1    STOR       0       0
  78          SV       0     .58     .60     .61     .62     .63     .64
  79          SQ       0       0      10      20      30      40      50
  80          KO       2

  81          KK  Node13
  82          KM  confluence g1-g2 with g3
  83          KO       2
  84          HC       2
  85          KO       2

  86          KK  Node10
  87          KM  Route water from  middle of subdivision to old mcdowell
  88          RS       1    STOR       0       0
  89          RC    .035    .035    .035     650   .0022      15
  90          RX       0      20     120   136.6   146.6   162.2   262.2   282.2
  91          RY      15      11      10    5.85    5.85      10      11      15
  92          KO       2

  93          KK  DEVELOP RAINFALL FOR SUBBASIN G4
  94          KM   6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
  95          KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
  96          KM  L =  .98  Kb = .064  Adj. Slope =   26.3
  97          BA    .252
```

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 99           LG    .430    .255   3.500    .515  10.470
100           UC    .742    .576
101           UA       0       5      16      30      65      77      84      90      94      97
102           UA     100
103           KO       2

104           KK  Node9
105           KM  Route water through detention basin to remove subdivision storage
106           RS       1    STOR       0       0
107           SV       0    7.58    7.60    7.70    7.80
108           SE       0      10      11      12      13
109           SL       0     1.0     0.6     0.5
110           SS      10      50     2.7     1.5
111           KO       2

112           KK  Node15
113           KM  confluence g1-g2-g3 with g4
114           HC       2
115           KO       2

116           KK  Develope rainfall for phase 2 area
117           KM   6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
118           KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
119           KM  L =  .072  Kb = .064  Adj. Slope =   9.9
120           BA    .043
121           PB   1.989
122           LG    .430    .255   3.500    .515   0.000
123           UC   1.087   1.030
124           UA       0       5      16      30      65      77      84      90      94      97
125           UA     100
126           KO       2

127           KK  Node16
128           KM  confluence g1-g2-g3-g4 and phase 2
129           HC       2
130           KO       2

131           KK  Route water through phase 2 channel thru existing 60' RCPs
132           RS       1    ELEV     974       0
133           SV       0    3.64    7.29   12.14   18.22   25.50   34.00   43.72   54.65
134           SE     974     977     978     979     980     981     982     983     984
135           SQ       0       0   14.90   41.02   90.10  151.37  220.14  286.54  345.40
136           SE     974     977     978     979     980     981     982     983     984
137           KO       2
138           ZZ
```

```
****************************************
*                                      *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)  *
*           SEPTEMBER 1990             *
*            VERSION 4.0               *
*                                      *
*  RUN DATE  06/09/1998  TIME  16:04:53 *
*                                      *
****************************************
```

```
****************************************
*                                      *
*   U.S. ARMY CORPS OF ENGINEERS       *
*   HYDROLOGIC ENGINEERING CENTER      *
*         609 SECOND STREET            *
*      DAVIS, CALIFORNIA 95616         *
*          (916) 756-1104              *
*                                      *
****************************************
```

Model # 4

```
  3 IO        OUTPUT CONTROL VARIABLES
                    IPRNT          2  PRINT CONTROL
                    IPLOT          0  PLOT CONTROL
                    QSCAL         0.  HYDROGRAPH PLOT SCALE

   IT         HYDROGRAPH TIME DATA
                     NMIN          5  MINUTES IN COMPUTATION INTERVAL
                    IDATE      1   0  STARTING DATE
                    ITIME       0000  STARTING TIME
                       NQ        300  NUMBER OF HYDROGRAPH ORDINATES
                   NDDATE      2   0  ENDING DATE
                   NDTIME       0055  ENDING TIME
                    ICENT         19  CENTURY MARK

              COMPUTATION INTERVAL     .08 HOURS
                   TOTAL TIME BASE   24.92 HOURS

       ENGLISH UNITS
            DRAINAGE AREA          SQUARE MILES
            PRECIPITATION DEPTH    INCHES
            LENGTH, ELEVATION      FEET
            FLOW                   CUBIC FEET PER SECOND
            STORAGE VOLUME         ACRE-FEET
            SURFACE AREA           ACRES
            TEMPERATURE            DEGREES FAHRENHEIT
```

*** ***

```
          **************
          *            *
  4 KK    *   DEVELO   *     P RAINFALL FOR BASIN G1
          *            *
          **************
                    6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
                    THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
                   L = 1.17  Kb = .050  Adj. Slope =   21.3

 10 IN        TIME DATA FOR INPUT TIME SERIES
                   JXMIN         15  TIME INTERVAL IN MINUTES
```

```
                JXDATE      1    0  STARTING DATE
                JXTIME           0  STARTING TIME

18 KO         OUTPUT CONTROL VARIABLES
                IPRNT            2  PRINT CONTROL
                IPLOT            0  PLOT CONTROL
                QSCAL           0.  HYDROGRAPH PLOT SCALE

            SUBBASIN RUNOFF DATA

 8 BA         SUBBASIN CHARACTERISTICS
                TAREA          .41  SUBBASIN AREA

              PRECIPITATION DATA

 9 PB           STORM         1.99  BASIN TOTAL PRECIPITATION

11 PI           INCREMENTAL PRECIPITATION PATTERN
                .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                .00      .00      .00      .01      .01      .01      .01      .01      .01      .03
                .03      .03      .05      .05      .05      .15      .15      .15      .03      .03
                .03      .01      .01      .01      .01      .01      .01      .00      .00      .00
                .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                .00      .00

14 LG         GREEN AND AMPT LOSS RATE
                STRTL          .43  STARTING LOSS
                  DTH          .25  MOISTURE DEFICIT
                 PSIF         3.50  WETTING FRONT SUCTION
                XKSAT          .51  HYDRAULIC CONDUCTIVITY
                RTIMP         7.00  PERCENT IMPERVIOUS AREA

15 UC         CLARK UNITGRAPH
                   TC         1.35  TIME OF CONCENTRATION
                    R          .99  STORAGE COEFFICIENT

16 UA         ACCUMULATED-AREA VS. TIME,  11 ORDINATES
                  .0       5.0      16.0      30.0      65.0      77.0      84.0      90.0      94.0      97.0
               100.0

                                          ***

                                   UNIT HYDROGRAPH PARAMETERS
                             CLARK   TC=  1.35 HR,       R=   .99 HR
                            SNYDER   TP=   .74 HR,      CP=   .44

                                      UNIT HYDROGRAPH
                                 70 END-OF-PERIOD ORDINATES
          4.       13.       27.       44.       64.      100.      139.      156.      159.      158.
        155.      151.      146.      140.      133.      127.      120.      111.      102.       93.
         86.       79.       72.       67.       61.       56.       52.       47.       44.       40.
         37.       34.       31.       29.       26.       24.       22.       20.       19.       17.
         16.       14.       13.       12.       11.       10.        9.        9.        8.        7.
          7.        6.        6.        5.        5.        4.        4.        4.        3.        3.
          3.        3.        2.        2.        2.        2.        2.        2.        1.        1.
```

HYDROGRAPH AT STATION DEVELO

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1		0000	1	.00	.00	.00	0.	1		1230	151	.00	.00	.00	0.
1		0005	2	.01	.00	.00	0.	1		1235	152	.00	.00	.00	0.
1		0010	3	.01	.00	.00	0.	1		1240	153	.00	.00	.00	0.
1		0015	4	.01	.00	.00	0.	1		1245	154	.00	.00	.00	0.
1		0020	5	.01	.00	.00	0.	1		1250	155	.00	.00	.00	0.
1		0025	6	.01	.00	.00	0.	1		1255	156	.00	.00	.00	0.
1		0030	7	.01	.00	.00	0.	1		1300	157	.00	.00	.00	0.
1		0035	8	.01	.01	.00	0.	1		1305	158	.00	.00	.00	0.
1		0040	9	.01	.01	.00	0.	1		1310	159	.00	.00	.00	0.
1		0045	10	.01	.01	.00	0.	1		1315	160	.00	.00	.00	0.
1		0050	11	.01	.00	.00	0.	1		1320	161	.00	.00	.00	0.
1		0055	12	.01	.00	.00	0.	1		1325	162	.00	.00	.00	0.
1		0100	13	.01	.00	.00	0.	1		1330	163	.00	.00	.00	0.
1		0105	14	.01	.00	.00	1.	1		1335	164	.00	.00	.00	0.
1		0110	15	.01	.00	.00	1.	1		1340	165	.00	.00	.00	0.
1		0115	16	.01	.00	.00	1.	1		1345	166	.00	.00	.00	0.
1		0120	17	.01	.01	.00	1.	1		1350	167	.00	.00	.00	0.
1		0125	18	.01	.01	.00	1.	1		1355	168	.00	.00	.00	0.
1		0130	19	.01	.01	.00	1.	1		1400	169	.00	.00	.00	0.
1		0135	20	.01	.00	.00	1.	1		1405	170	.00	.00	.00	0.
1		0140	21	.01	.00	.00	1.	1		1410	171	.00	.00	.00	0.
1		0145	22	.01	.00	.00	1.	1		1415	172	.00	.00	.00	0.
1		0150	23	.01	.00	.00	1.	1		1420	173	.00	.00	.00	0.
1		0155	24	.01	.00	.00	1.	1		1425	174	.00	.00	.00	0.
1		0200	25	.01	.00	.00	1.	1		1430	175	.00	.00	.00	0.
1		0205	26	.01	.00	.00	1.	1		1435	176	.00	.00	.00	0.
1		0210	27	.01	.00	.00	1.	1		1440	177	.00	.00	.00	0.
1		0215	28	.01	.00	.00	1.	1		1445	178	.00	.00	.00	0.
1		0220	29	.01	.01	.00	1.	1		1450	179	.00	.00	.00	0.
1		0225	30	.01	.01	.00	1.	1		1455	180	.00	.00	.00	0.
1		0230	31	.01	.01	.00	1.	1		1500	181	.00	.00	.00	0.
1		0235	32	.01	.01	.00	1.	1		1505	182	.00	.00	.00	0.
1		0240	33	.01	.01	.00	1.	1		1510	183	.00	.00	.00	0.
1		0245	34	.01	.01	.00	1.	1		1515	184	.00	.00	.00	0.
1		0250	35	.01	.01	.00	1.	1		1520	185	.00	.00	.00	0.
1		0255	36	.01	.01	.00	1.	1		1525	186	.00	.00	.00	0.
1		0300	37	.01	.01	.00	1.	1		1530	187	.00	.00	.00	0.
1		0305	38	.01	.01	.00	1.	1		1535	188	.00	.00	.00	0.
1		0310	39	.01	.01	.00	1.	1		1540	189	.00	.00	.00	0.
1		0315	40	.01	.01	.00	1.	1		1545	190	.00	.00	.00	0.
1		0320	41	.05	.05	.00	2.	1		1550	191	.00	.00	.00	0.
1		0325	42	.05	.05	.00	2.	1		1555	192	.00	.00	.00	0.
1		0330	43	.05	.05	.00	2.	1		1600	193	.00	.00	.00	0.
1		0335	44	.11	.10	.01	2.	1		1605	194	.00	.00	.00	0.
1		0340	45	.11	.10	.01	2.	1		1610	195	.00	.00	.00	0.
1		0345	46	.11	.10	.01	3.	1		1615	196	.00	.00	.00	0.
1		0350	47	.30	.13	.17	4.	1		1620	197	.00	.00	.00	0.
1		0355	48	.30	.11	.19	7.	1		1625	198	.00	.00	.00	0.
1		0400	49	.30	.10	.21	13.	1		1630	199	.00	.00	.00	0.
1		0405	50	.05	.05	.00	21.	1		1635	200	.00	.00	.00	0.

1	0410	51	.05	.05	.00	31.	*	1	1640	201	.00	.00	.00	0.
1	0415	52	.05	.05	.00	45.	*	1	1645	202	.00	.00	.00	0.
1	0420	53	.01	.01	.00	63.	*	1	1650	203	.00	.00	.00	0.
1	0425	54	.01	.01	.00	81.	*	1	1655	204	.00	.00	.00	0.
1	0430	55	.01	.01	.00	93.	*	1	1700	205	.00	.00	.00	0.
1	0435	56	.01	.01	.00	97.	*	1	1705	206	.00	.00	.00	0.
1	0440	57	.01	.01	.00	97.	*	1	1710	207	.00	.00	.00	0.
1	0445	58	.01	.01	.00	96.	*	1	1715	208	.00	.00	.00	0.
1	0450	59	.01	.01	.00	93.	*	1	1720	209	.00	.00	.00	0.
1	0455	60	.01	.01	.00	90.	*	1	1725	210	.00	.00	.00	0.
1	0500	61	.01	.01	.00	87.	*	1	1730	211	.00	.00	.00	0.
1	0505	62	.01	.01	.00	83.	*	1	1735	212	.00	.00	.00	0.
1	0510	63	.01	.01	.00	79.	*	1	1740	213	.00	.00	.00	0.
1	0515	64	.01	.01	.00	74.	*	1	1745	214	.00	.00	.00	0.
1	0520	65	.01	.01	.00	69.	*	1	1750	215	.00	.00	.00	0.
1	0525	66	.01	.01	.00	64.	*	1	1755	216	.00	.00	.00	0.
1	0530	67	.01	.01	.00	59.	*	1	1800	217	.00	.00	.00	0.
1	0535	68	.01	.00	.00	54.	*	1	1805	218	.00	.00	.00	0.
1	0540	69	.01	.00	.00	50.	*	1	1810	219	.00	.00	.00	0.
1	0545	70	.01	.00	.00	46.	*	1	1815	220	.00	.00	.00	0.
1	0550	71	.01	.01	.00	42.	*	1	1820	221	.00	.00	.00	0.
1	0555	72	.01	.01	.00	39.	*	1	1825	222	.00	.00	.00	0.
1	0600	73	.01	.01	.00	36.	*	1	1830	223	.00	.00	.00	0.
1	0605	74	.00	.00	.00	33.	*	1	1835	224	.00	.00	.00	0.
1	0610	75	.00	.00	.00	31.	*	1	1840	225	.00	.00	.00	0.
1	0615	76	.00	.00	.00	28.	*	1	1845	226	.00	.00	.00	0.
1	0620	77	.00	.00	.00	26.	*	1	1850	227	.00	.00	.00	0.
1	0625	78	.00	.00	.00	24.	*	1	1855	228	.00	.00	.00	0.
1	0630	79	.00	.00	.00	22.	*	1	1900	229	.00	.00	.00	0.
1	0635	80	.00	.00	.00	20.	*	1	1905	230	.00	.00	.00	0.
1	0640	81	.00	.00	.00	19.	*	1	1910	231	.00	.00	.00	0.
1	0645	82	.00	.00	.00	17.	*	1	1915	232	.00	.00	.00	0.
1	0650	83	.00	.00	.00	16.	*	1	1920	233	.00	.00	.00	0.
1	0655	84	.00	.00	.00	15.	*	1	1925	234	.00	.00	.00	0.
1	0700	85	.00	.00	.00	13.	*	1	1930	235	.00	.00	.00	0.
1	0705	86	.00	.00	.00	12.	*	1	1935	236	.00	.00	.00	0.
1	0710	87	.00	.00	.00	11.	*	1	1940	237	.00	.00	.00	0.
1	0715	88	.00	.00	.00	10.	*	1	1945	238	.00	.00	.00	0.
1	0720	89	.00	.00	.00	10.	*	1	1950	239	.00	.00	.00	0.
1	0725	90	.00	.00	.00	9.	*	1	1955	240	.00	.00	.00	0.
1	0730	91	.00	.00	.00	8.	*	1	2000	241	.00	.00	.00	0.
1	0735	92	.00	.00	.00	7.	*	1	2005	242	.00	.00	.00	0.
1	0740	93	.00	.00	.00	7.	*	1	2010	243	.00	.00	.00	0.
1	0745	94	.00	.00	.00	6.	*	1	2015	244	.00	.00	.00	0.
1	0750	95	.00	.00	.00	6.	*	1	2020	245	.00	.00	.00	0.
1	0755	96	.00	.00	.00	5.	*	1	2025	246	.00	.00	.00	0.
1	0800	97	.00	.00	.00	5.	*	1	2030	247	.00	.00	.00	0.
1	0805	98	.00	.00	.00	4.	*	1	2035	248	.00	.00	.00	0.
1	0810	99	.00	.00	.00	4.	*	1	2040	249	.00	.00	.00	0.
1	0815	100	.00	.00	.00	4.	*	1	2045	250	.00	.00	.00	0.
1	0820	101	.00	.00	.00	3.	*	1	2050	251	.00	.00	.00	0.
1	0825	102	.00	.00	.00	3.	*	1	2055	252	.00	.00	.00	0.
1	0830	103	.00	.00	.00	3.	*	1	2100	253	.00	.00	.00	0.
1	0835	104	.00	.00	.00	3.	*	1	2105	254	.00	.00	.00	0.
1	0840	105	.00	.00	.00	2.	*	1	2110	255	.00	.00	.00	0.
1	0845	106	.00	.00	.00	2.	*	1	2115	256	.00	.00	.00	0.
1	0850	107	.00	.00	.00	2.	*	1	2120	257	.00	.00	.00	0.
1	0855	108	.00	.00	.00	2.	*	1	2125	258	.00	.00	.00	0.

1	0900	109	.00	.00	.00	2.	*	1	2130	259	.00	.00	.00	0.
1	0905	110	.00	.00	.00	2.	*	1	2135	260	.00	.00	.00	0.
1	0910	111	.00	.00	.00	1.	*	1	2140	261	.00	.00	.00	0.
1	0915	112	.00	.00	.00	1.	*	1	2145	262	.00	.00	.00	0.
1	0920	113	.00	.00	.00	1.	*	1	2150	263	.00	.00	.00	0.
1	0925	114	.00	.00	.00	1.	*	1	2155	264	.00	.00	.00	0.
1	0930	115	.00	.00	.00	1.	*	1	2200	265	.00	.00	.00	0.
1	0935	116	.00	.00	.00	1.	*	1	2205	266	.00	.00	.00	0.
1	0940	117	.00	.00	.00	1.	*	1	2210	267	.00	.00	.00	0.
1	0945	118	.00	.00	.00	0.	*	1	2215	268	.00	.00	.00	0.
1	0950	119	.00	.00	.00	0.	*	1	2220	269	.00	.00	.00	0.
1	0955	120	.00	.00	.00	0.	*	1	2225	270	.00	.00	.00	0.
1	1000	121	.00	.00	.00	0.	*	1	2230	271	.00	.00	.00	0.
1	1005	122	.00	.00	.00	0.	*	1	2235	272	.00	.00	.00	0.
1	1010	123	.00	.00	.00	0.	*	1	2240	273	.00	.00	.00	0.
1	1015	124	.00	.00	.00	0.	*	1	2245	274	.00	.00	.00	0.
1	1020	125	.00	.00	.00	0.	*	1	2250	275	.00	.00	.00	0.
1	1025	126	.00	.00	.00	0.	*	1	2255	276	.00	.00	.00	0.
1	1030	127	.00	.00	.00	0.	*	1	2300	277	.00	.00	.00	0.
1	1035	128	.00	.00	.00	0.	*	1	2305	278	.00	.00	.00	0.
1	1040	129	.00	.00	.00	0.	*	1	2310	279	.00	.00	.00	0.
1	1045	130	.00	.00	.00	0.	*	1	2315	280	.00	.00	.00	0.
1	1050	131	.00	.00	.00	0.	*	1	2320	281	.00	.00	.00	0.
1	1055	132	.00	.00	.00	0.	*	1	2325	282	.00	.00	.00	0.
1	1100	133	.00	.00	.00	0.	*	1	2330	283	.00	.00	.00	0.
1	1105	134	.00	.00	.00	0.	*	1	2335	284	.00	.00	.00	0.
1	1110	135	.00	.00	.00	0.	*	1	2340	285	.00	.00	.00	0.
1	1115	136	.00	.00	.00	0.	*	1	2345	286	.00	.00	.00	0.
1	1120	137	.00	.00	.00	0.	*	1	2350	287	.00	.00	.00	0.
1	1125	138	.00	.00	.00	0.	*	1	2355	288	.00	.00	.00	0.
1	1130	139	.00	.00	.00	0.	*	2	0000	289	.00	.00	.00	0.
1	1135	140	.00	.00	.00	0.	*	2	0005	290	.00	.00	.00	0.
1	1140	141	.00	.00	.00	0.	*	2	0010	291	.00	.00	.00	0.
1	1145	142	.00	.00	.00	0.	*	2	0015	292	.00	.00	.00	0.
1	1150	143	.00	.00	.00	0.	*	2	0020	293	.00	.00	.00	0.
1	1155	144	.00	.00	.00	0.	*	2	0025	294	.00	.00	.00	0.
1	1200	145	.00	.00	.00	0.	*	2	0030	295	.00	.00	.00	0.
1	1205	146	.00	.00	.00	0.	*	2	0035	296	.00	.00	.00	0.
1	1210	147	.00	.00	.00	0.	*	2	0040	297	.00	.00	.00	0.
1	1215	148	.00	.00	.00	0.	*	2	0045	298	.00	.00	.00	0.
1	1220	149	.00	.00	.00	0.	*	2	0050	299	.00	.00	.00	0.
1	1225	150	.00	.00	.00	0.	*	2	0055	300	.00	.00	.00	0.
							*							

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TOTAL RAINFALL = 1.99, TOTAL LOSS = 1.34, TOTAL EXCESS = .65

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)					
		(CFS)				
97.	4.67		28.	7.	7.	7.
		(INCHES)	.634	.645	.645	.645
		(AC-FT)	14.	14.	14.	14.

CUMULATIVE AREA = .41 SQ MI

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          **************
          *            *
 19 KK    *    Node17  *
          *            *
          **************
                    basin routing through transfer pipe culverts

 26 KO          OUTPUT CONTROL VARIABLES
                      IPRNT           2  PRINT CONTROL
                      IPLOT           0  PLOT CONTROL
                      QSCAL          0.  HYDROGRAPH PLOT SCALE

             HYDROGRAPH ROUTING DATA

 21 RS          STORAGE ROUTING
                      NSTPS           1  NUMBER OF SUBREACHES
                       ITYP        STOR  TYPE OF INITIAL CONDITION
                     RSVRIC         .00  INITIAL CONDITION
                          X         .00 WORKING R AND D COEFFICIENT

 22 SV            STORAGE          .0       .0       .1       .2      1.8      3.4      7.6     13.8

 23 SE          ELEVATION       77.82    78.00    79.00    80.00    81.00    82.00    83.00    84.00

 24 SL          LOW-LEVEL OUTLET
                      ELEVL       77.82  ELEVATION AT CENTER OF OUTLET
                      CAREA       15.70  CROSS-SECTIONAL AREA
                       COQL         .60  COEFFICIENT
                       EXPL         .50  EXPONENT OF HEAD

 25 SS          SPILLWAY
                       CREL       83.80  SPILLWAY CREST ELEVATION
                      SPWID       15.00  SPILLWAY WIDTH
                       COQW        3.00  WEIR COEFFICIENT
                       EXPW        1.50  EXPONENT OF HEAD

                                                  ***

                                  COMPUTED OUTFLOW-ELEVATION DATA

        OUTFLOW        .00    109.17    115.06    121.61    128.96    137.24    146.67    157.49    170.03    184.75
      ELEVATION      77.82     79.91     80.14     80.41     80.73     81.12     81.59     82.17     82.89     83.80

        OUTFLOW     186.42    186.80    187.23    187.71    188.24    188.83    189.49    190.20    190.98    191.84
      ELEVATION      83.86     83.87     83.89     83.90     83.91     83.93     83.95     83.96     83.98     84.00

                                  COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

        STORAGE        .00       .02       .11       .19       .20       .42       .85      1.37      1.79      1.98
        OUTFLOW        .00     32.05     82.07    109.17    111.55    115.06    121.61    128.96    134.72    137.24
      ELEVATION      77.82     78.00     79.00     79.91     80.00     80.14     80.41     80.73     81.00     81.12
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STORAGE	2.73	3.38	4.07	7.09	7.57	12.56	12.95	13.03	13.10	13.19
OUTFLOW	146.67	154.46	157.49	170.03	171.95	184.75	186.42	186.80	187.23	187.71
ELEVATION	81.59	82.00	82.17	82.89	83.00	83.80	83.86	83.87	83.89	83.90

STORAGE	13.28	13.37	13.47	13.58	13.69	13.81
OUTFLOW	188.24	188.83	189.49	190.20	190.98	191.84
ELEVATION	83.91	83.93	83.95	83.96	83.98	84.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 0. TO 109.
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

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HYDROGRAPH AT STATION Node17

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DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	77.8	*	1		0820	101	3.	.0	77.8	*	1		1640	201	0.	.0	77.8
1		0005	2	0.	.0	77.8	*	1		0825	102	3.	.0	77.8	*	1		1645	202	0.	.0	77.8
1		0010	3	0.	.0	77.8	*	1		0830	103	3.	.0	77.8	*	1		1650	203	0.	.0	77.8
1		0015	4	0.	.0	77.8	*	1		0835	104	3.	.0	77.8	*	1		1655	204	0.	.0	77.8
1		0020	5	0.	.0	77.8	*	1		0840	105	2.	.0	77.8	*	1		1700	205	0.	.0	77.8
1		0025	6	0.	.0	77.8	*	1		0845	106	2.	.0	77.8	*	1		1705	206	0.	.0	77.8
1		0030	7	0.	.0	77.8	*	1		0850	107	2.	.0	77.8	*	1		1710	207	0.	.0	77.8
1		0035	8	0.	.0	77.8	*	1		0855	108	2.	.0	77.8	*	1		1715	208	0.	.0	77.8
1		0040	9	0.	.0	77.8	*	1		0900	109	2.	.0	77.8	*	1		1720	209	0.	.0	77.8
1		0045	10	0.	.0	77.8	*	1		0905	110	2.	.0	77.8	*	1		1725	210	0.	.0	77.8
1		0050	11	0.	.0	77.8	*	1		0910	111	1.	.0	77.8	*	1		1730	211	0.	.0	77.8
1		0055	12	0.	.0	77.8	*	1		0915	112	1.	.0	77.8	*	1		1735	212	0.	.0	77.8
1		0100	13	0.	.0	77.8	*	1		0920	113	1.	.0	77.8	*	1		1740	213	0.	.0	77.8
1		0105	14	0.	.0	77.8	*	1		0925	114	1.	.0	77.8	*	1		1745	214	0.	.0	77.8
1		0110	15	1.	.0	77.8	*	1		0930	115	1.	.0	77.8	*	1		1750	215	0.	.0	77.8
1		0115	16	1.	.0	77.8	*	1		0935	116	1.	.0	77.8	*	1		1755	216	0.	.0	77.8
1		0120	17	1.	.0	77.8	*	1		0940	117	1.	.0	77.8	*	1		1800	217	0.	.0	77.8
1		0125	18	1.	.0	77.8	*	1		0945	118	0.	.0	77.8	*	1		1805	218	0.	.0	77.8
1		0130	19	1.	.0	77.8	*	1		0950	119	0.	.0	77.8	*	1		1810	219	0.	.0	77.8
1		0135	20	1.	.0	77.8	*	1		0955	120	0.	.0	77.8	*	1		1815	220	0.	.0	77.8
1		0140	21	1.	.0	77.8	*	1		1000	121	0.	.0	77.8	*	1		1820	221	0.	.0	77.8
1		0145	22	1.	.0	77.8	*	1		1005	122	0.	.0	77.8	*	1		1825	222	0.	.0	77.8
1		0150	23	1.	.0	77.8	*	1		1010	123	0.	.0	77.8	*	1		1830	223	0.	.0	77.8
1		0155	24	1.	.0	77.8	*	1		1015	124	0.	.0	77.8	*	1		1835	224	0.	.0	77.8
1		0200	25	1.	.0	77.8	*	1		1020	125	0.	.0	77.8	*	1		1840	225	0.	.0	77.8
1		0205	26	1.	.0	77.8	*	1		1025	126	0.	.0	77.8	*	1		1845	226	0.	.0	77.8
1		0210	27	1.	.0	77.8	*	1		1030	127	0.	.0	77.8	*	1		1850	227	0.	.0	77.8
1		0215	28	1.	.0	77.8	*	1		1035	128	0.	.0	77.8	*	1		1855	228	0.	.0	77.8
1		0220	29	1.	.0	77.8	*	1		1040	129	0.	.0	77.8	*	1		1900	229	0.	.0	77.8
1		0225	30	1.	.0	77.8	*	1		1045	130	0.	.0	77.8	*	1		1905	230	0.	.0	77.8
1		0230	31	1.	.0	77.8	*	1		1050	131	0.	.0	77.8	*	1		1910	231	0.	.0	77.8
1		0235	32	1.	.0	77.8	*	1		1055	132	0.	.0	77.8	*	1		1915	232	0.	.0	77.8
1		0240	33	1.	.0	77.8	*	1		1100	133	0.	.0	77.8	*	1		1920	233	0.	.0	77.8
1		0245	34	1.	.0	77.8	*	1		1105	134	0.	.0	77.8	*	1		1925	234	0.	.0	77.8
1		0250	35	1.	.0	77.8	*	1		1110	135	0.	.0	77.8	*	1		1930	235	0.	.0	77.8
1		0255	36	1.	.0	77.8	*	1		1115	136	0.	.0	77.8	*	1		1935	236	0.	.0	77.8
1		0300	37	1.	.0	77.8	*	1		1120	137	0.	.0	77.8	*	1		1940	237	0.	.0	77.8
1		0305	38	1.	.0	77.8	*	1		1125	138	0.	.0	77.8	*	1		1945	238	0.	.0	77.8

1	0310	39	1.	.0	77.8	*	1	1130	139	0.	.0	77.8	*	1	1950	239	0.	.0	77.8
1	0315	40	1.	.0	77.8	*	1	1135	140	0.	.0	77.8	*	1	1955	240	0.	.0	77.8
1	0320	41	2.	.0	77.8	*	1	1140	141	0.	.0	77.8	*	1	2000	241	0.	.0	77.8
1	0325	42	2.	.0	77.8	*	1	1145	142	0.	.0	77.8	*	1	2005	242	0.	.0	77.8
1	0330	43	2.	.0	77.8	*	1	1150	143	0.	.0	77.8	*	1	2010	243	0.	.0	77.8
1	0335	44	2.	.0	77.8	*	1	1155	144	0.	.0	77.8	*	1	2015	244	0.	.0	77.8
1	0340	45	2.	.0	77.8	*	1	1200	145	0.	.0	77.8	*	1	2020	245	0.	.0	77.8
1	0345	46	3.	.0	77.8	*	1	1205	146	0.	.0	77.8	*	1	2025	246	0.	.0	77.8
1	0350	47	4.	.0	77.8	*	1	1210	147	0.	.0	77.8	*	1	2030	247	0.	.0	77.8
1	0355	48	7.	.0	77.9	*	1	1215	148	0.	.0	77.8	*	1	2035	248	0.	.0	77.8
1	0400	49	12.	.0	77.9	*	1	1220	149	0.	.0	77.8	*	1	2040	249	0.	.0	77.8
1	0405	50	20.	.0	77.9	*	1	1225	150	0.	.0	77.8	*	1	2045	250	0.	.0	77.8
1	0410	51	30.	.0	78.0	*	1	1230	151	0.	.0	77.8	*	1	2050	251	0.	.0	77.8
1	0415	52	41.	.0	78.2	*	1	1235	152	0.	.0	77.8	*	1	2055	252	0.	.0	77.8
1	0420	53	58.	.1	78.5	*	1	1240	153	0.	.0	77.8	*	1	2100	253	0.	.0	77.8
1	0425	54	77.	.1	78.9	*	1	1245	154	0.	.0	77.8	*	1	2105	254	0.	.0	77.8
1	0430	55	89.	.1	79.2	*	1	1250	155	0.	.0	77.8	*	1	2110	255	0.	.0	77.8
1	0435	56	96.	.2	79.5	*	1	1255	156	0.	.0	77.8	*	1	2115	256	0.	.0	77.8
1	0440	57	97.	.2	79.5	*	1	1300	157	0.	.0	77.8	*	1	2120	257	0.	.0	77.8
1	0445	58	96.	.2	79.5	*	1	1305	158	0.	.0	77.8	*	1	2125	258	0.	.0	77.8
1	0450	59	94.	.1	79.4	*	1	1310	159	0.	.0	77.8	*	1	2130	259	0.	.0	77.8
1	0455	60	92.	.1	79.3	*	1	1315	160	0.	.0	77.8	*	1	2135	260	0.	.0	77.8
1	0500	61	88.	.1	79.2	*	1	1320	161	0.	.0	77.8	*	1	2140	261	0.	.0	77.8
1	0505	62	84.	.1	79.1	*	1	1325	162	0.	.0	77.8	*	1	2145	262	0.	.0	77.8
1	0510	63	80.	.1	79.0	*	1	1330	163	0.	.0	77.8	*	1	2150	263	0.	.0	77.8
1	0515	64	75.	.1	78.9	*	1	1335	164	0.	.0	77.8	*	1	2155	264	0.	.0	77.8
1	0520	65	71.	.1	78.8	*	1	1340	165	0.	.0	77.8	*	1	2200	265	0.	.0	77.8
1	0525	66	65.	.1	78.7	*	1	1345	166	0.	.0	77.8	*	1	2205	266	0.	.0	77.8
1	0530	67	60.	.1	78.6	*	1	1350	167	0.	.0	77.8	*	1	2210	267	0.	.0	77.8
1	0535	68	55.	.1	78.5	*	1	1355	168	0.	.0	77.8	*	1	2215	268	0.	.0	77.8
1	0540	69	51.	.1	78.4	*	1	1400	169	0.	.0	77.8	*	1	2220	269	0.	.0	77.8
1	0545	70	47.	.0	78.3	*	1	1405	170	0.	.0	77.8	*	1	2225	270	0.	.0	77.8
1	0550	71	43.	.0	78.2	*	1	1410	171	0.	.0	77.8	*	1	2230	271	0.	.0	77.8
1	0555	72	40.	.0	78.2	*	1	1415	172	0.	.0	77.8	*	1	2235	272	0.	.0	77.8
1	0600	73	37.	.0	78.1	*	1	1420	173	0.	.0	77.8	*	1	2240	273	0.	.0	77.8
1	0605	74	34.	.0	78.0	*	1	1425	174	0.	.0	77.8	*	1	2245	274	0.	.0	77.8
1	0610	75	31.	.0	78.0	*	1	1430	175	0.	.0	77.8	*	1	2250	275	0.	.0	77.8
1	0615	76	28.	.0	78.0	*	1	1435	176	0.	.0	77.8	*	1	2255	276	0.	.0	77.8
1	0620	77	26.	.0	78.0	*	1	1440	177	0.	.0	77.8	*	1	2300	277	0.	.0	77.8
1	0625	78	24.	.0	78.0	*	1	1445	178	0.	.0	77.8	*	1	2305	278	0.	.0	77.8
1	0630	79	22.	.0	77.9	*	1	1450	179	0.	.0	77.8	*	1	2310	279	0.	.0	77.8
1	0635	80	21.	.0	77.9	*	1	1455	180	0.	.0	77.8	*	1	2315	280	0.	.0	77.8
1	0640	81	19.	.0	77.9	*	1	1500	181	0.	.0	77.8	*	1	2320	281	0.	.0	77.8
1	0645	82	17.	.0	77.9	*	1	1505	182	0.	.0	77.8	*	1	2325	282	0.	.0	77.8
1	0650	83	16.	.0	77.9	*	1	1510	183	0.	.0	77.8	*	1	2330	283	0.	.0	77.8
1	0655	84	15.	.0	77.9	*	1	1515	184	0.	.0	77.8	*	1	2335	284	0.	.0	77.8
1	0700	85	14.	.0	77.9	*	1	1520	185	0.	.0	77.8	*	1	2340	285	0.	.0	77.8
1	0705	86	12.	.0	77.9	*	1	1525	186	0.	.0	77.8	*	1	2345	286	0.	.0	77.8
1	0710	87	11.	.0	77.9	*	1	1530	187	0.	.0	77.8	*	1	2350	287	0.	.0	77.8
1	0715	88	11.	.0	77.9	*	1	1535	188	0.	.0	77.8	*	1	2355	288	0.	.0	77.8
1	0720	89	10.	.0	77.9	*	1	1540	189	0.	.0	77.8	*	2	0000	289	0.	.0	77.8
1	0725	90	9.	.0	77.9	*	1	1545	190	0.	.0	77.8	*	2	0005	290	0.	.0	77.8
1	0730	91	8.	.0	77.9	*	1	1550	191	0.	.0	77.8	*	2	0010	291	0.	.0	77.8
1	0735	92	7.	.0	77.9	*	1	1555	192	0.	.0	77.8	*	2	0015	292	0.	.0	77.8
1	0740	93	7.	.0	77.9	*	1	1600	193	0.	.0	77.8	*	2	0020	293	0.	.0	77.8
1	0745	94	6.	.0	77.9	*	1	1605	194	0.	.0	77.8	*	2	0025	294	0.	.0	77.8
1	0750	95	6.	.0	77.9	*	1	1610	195	0.	.0	77.8	*	2	0030	295	0.	.0	77.8
1	0755	96	5.	.0	77.8	*	1	1615	196	0.	.0	77.8	*	2	0035	296	0.	.0	77.8

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 1    0800  97      5.      .0    77.8 *  1     1620 197      0.      .0    77.8 *  2     0040 297      0.      .0    77.8
 1    0805  98      5.      .0    77.8 *  1     1625 198      0.      .0    77.8 *  2     0045 298      0.      .0    77.8
 1    0810  99      4.      .0    77.8 *  1     1630 199      0.      .0    77.8 *  2     0050 299      0.      .0    77.8
 1    0815 100      4.      .0    77.8 *  1     1635 200      0.      .0    77.8 *  2     0055 300      0.      .0    77.8
                                         *                                            *
*****************************************************************************************************************************

 PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                     6-HR       24-HR       72-HR     24.92-HR
  (CFS)       (HR)
                          (CFS)
     97.      4.67                   28.         7.          7.          7.
                        (INCHES)    .634        .645        .645        .645
                         (AC-FT)     14.         14.         14.         14.

PEAK STORAGE   TIME                          MAXIMUM AVERAGE STORAGE
                                     6-HR       24-HR       72-HR     24.92-HR
 (AC-FT)      (HR)
      0.      4.67                    0.          0.          0.          0.

 PEAK STAGE    TIME                          MAXIMUM AVERAGE STAGE
                                     6-HR       24-HR       72-HR     24.92-HR
  (FEET)      (HR)
   79.51      4.67                  78.16       77.91       77.90       77.90

                        CUMULATIVE AREA =     .41 SQ MI


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


          **************
          *            *
 27 KK    *    Node10  *
          *            *
          **************
                    Route water from culverts to middle of subdivision

 33 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

             HYDROGRAPH ROUTING DATA

 29 RS          STORAGE ROUTING
                      NSTPS          1  NUMBER OF SUBREACHES
                       ITYP       STOR  TYPE OF INITIAL CONDITION
                     RSVRIC        .00  INITIAL CONDITION
                          X        .00 WORKING R AND D COEFFICIENT

 30 RC          NORMAL DEPTH CHANNEL
                        ANL       .035  LEFT OVERBANK N-VALUE
                       ANCH       .035  MAIN CHANNEL N-VALUE
                        ANR       .035  RIGHT OVERBANK N-VALUE
                      RLNTH       650.  REACH LENGTH
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SEL .0022 ENERGY SLOPE
ELMAX 15.0 MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

CROSS-SECTION DATA

		--- LEFT OVERBANK ---			+ ------ MAIN CHANNEL		------- +	--- RIGHT OVERBANK ---	
32 RY	ELEVATION	15.00	11.00	10.00	5.85	5.85	10.00	11.00	15.00
31 RX	DISTANCE	.00	20.00	120.00	136.60	146.60	162.20	262.20	282.20

***

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	.09	.20	.34	.50	.69	.91	1.16	1.43	1.78
OUTFLOW	.00	6.32	21.74	46.35	81.01	126.67	184.32	254.90	339.36	449.06
ELEVATION	5.85	6.33	6.81	7.29	7.78	8.26	8.74	9.22	9.70	10.18
STORAGE	2.70	4.27	6.04	7.84	9.68	11.55	13.46	15.40	17.38	19.39
OUTFLOW	628.29	931.10	1390.33	1963.47	2640.18	3413.96	4280.30	5235.91	6278.27	7405.46
ELEVATION	10.67	11.15	11.63	12.11	12.59	13.07	13.56	14.04	14.52	15.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 255. TO 7405.
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

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HYDROGRAPH AT STATION Node10

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DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	5.8	*	1		0820	101	4.	.1	6.2	*	1		1640	201	0.	.0	5.8
1		0005	2	0.	.0	5.9	*	1		0825	102	4.	.1	6.1	*	1		1645	202	0.	.0	5.8
1		0010	3	0.	.0	5.9	*	1		0830	103	4.	.0	6.1	*	1		1650	203	0.	.0	5.8
1		0015	4	0.	.0	5.9	*	1		0835	104	3.	.0	6.1	*	1		1655	204	0.	.0	5.8
1		0020	5	0.	.0	5.9	*	1		0840	105	3.	.0	6.1	*	1		1700	205	0.	.0	5.8
1		0025	6	0.	.0	5.9	*	1		0845	106	3.	.0	6.1	*	1		1705	206	0.	.0	5.8
1		0030	7	0.	.0	5.9	*	1		0850	107	3.	.0	6.0	*	1		1710	207	0.	.0	5.8
1		0035	8	0.	.0	5.9	*	1		0855	108	2.	.0	6.0	*	1		1715	208	0.	.0	5.8
1		0040	9	0.	.0	5.9	*	1		0900	109	2.	.0	6.0	*	1		1720	209	0.	.0	5.8
1		0045	10	0.	.0	5.9	*	1		0905	110	2.	.0	6.0	*	1		1725	210	0.	.0	5.8
1		0050	11	0.	.0	5.9	*	1		0910	111	2.	.0	6.0	*	1		1730	211	0.	.0	5.8
1		0055	12	0.	.0	5.9	*	1		0915	112	2.	.0	6.0	*	1		1735	212	0.	.0	5.8
1		0100	13	0.	.0	5.9	*	1		0920	113	2.	.0	6.0	*	1		1740	213	0.	.0	5.8
1		0105	14	0.	.0	5.9	*	1		0925	114	1.	.0	6.0	*	1		1745	214	0.	.0	5.8
1		0110	15	0.	.0	5.9	*	1		0930	115	1.	.0	5.9	*	1		1750	215	0.	.0	5.8
1		0115	16	0.	.0	5.9	*	1		0935	116	1.	.0	5.9	*	1		1755	216	0.	.0	5.8
1		0120	17	1.	.0	5.9	*	1		0940	117	1.	.0	5.9	*	1		1800	217	0.	.0	5.8
1		0125	18	1.	.0	5.9	*	1		0945	118	1.	.0	5.9	*	1		1805	218	0.	.0	5.8
1		0130	19	1.	.0	5.9	*	1		0950	119	1.	.0	5.9	*	1		1810	219	0.	.0	5.8
1		0135	20	1.	.0	5.9	*	1		0955	120	0.	.0	5.9	*	1		1815	220	0.	.0	5.8
1		0140	21	1.	.0	5.9	*	1		1000	121	0.	.0	5.9	*	1		1820	221	0.	.0	5.8
1		0145	22	1.	.0	5.9	*	1		1005	122	0.	.0	5.9	*	1		1825	222	0.	.0	5.8
1		0150	23	1.	.0	5.9	*	1		1010	123	0.	.0	5.9	*	1		1830	223	0.	.0	5.8
1		0155	24	1.	.0	5.9	*	1		1015	124	0.	.0	5.9	*	1		1835	224	0.	.0	5.8
1		0200	25	1.	.0	5.9	*	1		1020	125	0.	.0	5.9	*	1		1840	225	0.	.0	5.8

1	0205	26	1.	.0	5.9	*	1	1025	126	0.	.0	5.9	*	1	1845	226	0.	.0	5.8
1	0210	27	1.	.0	5.9	*	1	1030	127	0.	.0	5.9	*	1	1850	227	0.	.0	5.8
1	0215	28	1.	.0	5.9	*	1	1035	128	0.	.0	5.9	*	1	1855	228	0.	.0	5.8
1	0220	29	1.	.0	5.9	*	1	1040	129	0.	.0	5.9	*	1	1900	229	0.	.0	5.8
1	0225	30	1.	.0	5.9	*	1	1045	130	0.	.0	5.9	*	1	1905	230	0.	.0	5.8
1	0230	31	1.	.0	5.9	*	1	1050	131	0.	.0	5.9	*	1	1910	231	0.	.0	5.8
1	0235	32	1.	.0	5.9	*	1	1055	132	0.	.0	5.9	*	1	1915	232	0.	.0	5.8
1	0240	33	1.	.0	5.9	*	1	1100	133	0.	.0	5.9	*	1	1920	233	0.	.0	5.8
1	0245	34	1.	.0	5.9	*	1	1105	134	0.	.0	5.9	*	1	1925	234	0.	.0	5.8
1	0250	35	1.	.0	5.9	*	1	1110	135	0.	.0	5.9	*	1	1930	235	0.	.0	5.8
1	0255	36	1.	.0	5.9	*	1	1115	136	0.	.0	5.9	*	1	1935	236	0.	.0	5.8
1	0300	37	1.	.0	5.9	*	1	1120	137	0.	.0	5.9	*	1	1940	237	0.	.0	5.8
1	0305	38	1.	.0	5.9	*	1	1125	138	0.	.0	5.9	*	1	1945	238	0.	.0	5.8
1	0310	39	1.	.0	5.9	*	1	1130	139	0.	.0	5.9	*	1	1950	239	0.	.0	5.8
1	0315	40	1.	.0	6.0	*	1	1135	140	0.	.0	5.9	*	1	1955	240	0.	.0	5.8
1	0320	41	1.	.0	6.0	*	1	1140	141	0.	.0	5.9	*	1	2000	241	0.	.0	5.8
1	0325	42	1.	.0	6.0	*	1	1145	142	0.	.0	5.9	*	1	2005	242	0.	.0	5.8
1	0330	43	2.	.0	6.0	*	1	1150	143	0.	.0	5.9	*	1	2010	243	0.	.0	5.8
1	0335	44	2.	.0	6.0	*	1	1155	144	0.	.0	5.9	*	1	2015	244	0.	.0	5.8
1	0340	45	2.	.0	6.0	*	1	1200	145	0.	.0	5.9	*	1	2020	245	0.	.0	5.8
1	0345	46	2.	.0	6.0	*	1	1205	146	0.	.0	5.9	*	1	2025	246	0.	.0	5.8
1	0350	47	3.	.0	6.1	*	1	1210	147	0.	.0	5.9	*	1	2030	247	0.	.0	5.8
1	0355	48	4.	.1	6.1	*	1	1215	148	0.	.0	5.9	*	1	2035	248	0.	.0	5.8
1	0400	49	6.	.1	6.3	*	1	1220	149	0.	.0	5.9	*	1	2040	249	0.	.0	5.8
1	0405	50	12.	.1	6.5	*	1	1225	150	0.	.0	5.9	*	1	2045	250	0.	.0	5.8
1	0410	51	21.	.2	6.8	*	1	1230	151	0.	.0	5.9	*	1	2050	251	0.	.0	5.8
1	0415	52	32.	.3	7.0	*	1	1235	152	0.	.0	5.9	*	1	2055	252	0.	.0	5.8
1	0420	53	45.	.3	7.3	*	1	1240	153	0.	.0	5.9	*	1	2100	253	0.	.0	5.8
1	0425	54	64.	.4	7.5	*	1	1245	154	0.	.0	5.9	*	1	2105	254	0.	.0	5.8
1	0430	55	80.	.5	7.8	*	1	1250	155	0.	.0	5.8	*	1	2110	255	0.	.0	5.8
1	0435	56	91.	.5	7.9	*	1	1255	156	0.	.0	5.8	*	1	2115	256	0.	.0	5.8
1	0440	57	96.	.6	7.9	*	1	1300	157	0.	.0	5.8	*	1	2120	257	0.	.0	5.8
1	0445	58	97.	.6	7.9	*	1	1305	158	0.	.0	5.8	*	1	2125	258	0.	.0	5.8
1	0450	59	95.	.6	7.9	*	1	1310	159	0.	.0	5.8	*	1	2130	259	0.	.0	5.8
1	0455	60	93.	.6	7.9	*	1	1315	160	0.	.0	5.8	*	1	2135	260	0.	.0	5.8
1	0500	61	90.	.5	7.9	*	1	1320	161	0.	.0	5.8	*	1	2140	261	0.	.0	5.8
1	0505	62	87.	.5	7.8	*	1	1325	162	0.	.0	5.8	*	1	2145	262	0.	.0	5.8
1	0510	63	83.	.5	7.8	*	1	1330	163	0.	.0	5.8	*	1	2150	263	0.	.0	5.8
1	0515	64	78.	.5	7.7	*	1	1335	164	0.	.0	5.8	*	1	2155	264	0.	.0	5.8
1	0520	65	74.	.5	7.7	*	1	1340	165	0.	.0	5.8	*	1	2200	265	0.	.0	5.8
1	0525	66	69.	.4	7.6	*	1	1345	166	0.	.0	5.8	*	1	2205	266	0.	.0	5.8
1	0530	67	64.	.4	7.5	*	1	1350	167	0.	.0	5.8	*	1	2210	267	0.	.0	5.8
1	0535	68	59.	.4	7.5	*	1	1355	168	0.	.0	5.8	*	1	2215	268	0.	.0	5.8
1	0540	69	54.	.4	7.4	*	1	1400	169	0.	.0	5.8	*	1	2220	269	0.	.0	5.8
1	0545	70	50.	.4	7.3	*	1	1405	170	0.	.0	5.8	*	1	2225	270	0.	.0	5.8
1	0550	71	46.	.3	7.3	*	1	1410	171	0.	.0	5.8	*	1	2230	271	0.	.0	5.8
1	0555	72	43.	.3	7.2	*	1	1415	172	0.	.0	5.8	*	1	2235	272	0.	.0	5.8
1	0600	73	39.	.3	7.2	*	1	1420	173	0.	.0	5.8	*	1	2240	273	0.	.0	5.8
1	0605	74	36.	.3	7.1	*	1	1425	174	0.	.0	5.8	*	1	2245	274	0.	.0	5.8
1	0610	75	33.	.3	7.0	*	1	1430	175	0.	.0	5.8	*	1	2250	275	0.	.0	5.8
1	0615	76	31.	.2	7.0	*	1	1435	176	0.	.0	5.8	*	1	2255	276	0.	.0	5.8
1	0620	77	28.	.2	6.9	*	1	1440	177	0.	.0	5.8	*	1	2300	277	0.	.0	5.8
1	0625	78	26.	.2	6.9	*	1	1445	178	0.	.0	5.8	*	1	2305	278	0.	.0	5.8
1	0630	79	24.	.2	6.9	*	1	1450	179	0.	.0	5.8	*	1	2310	279	0.	.0	5.8
1	0635	80	22.	.2	6.8	*	1	1455	180	0.	.0	5.8	*	1	2315	280	0.	.0	5.8
1	0640	81	21.	.2	6.8	*	1	1500	181	0.	.0	5.8	*	1	2320	281	0.	.0	5.8
1	0645	82	19.	.2	6.7	*	1	1505	182	0.	.0	5.8	*	1	2325	282	0.	.0	5.8
1	0650	83	18.	.2	6.7	*	1	1510	183	0.	.0	5.8	*	1	2330	283	0.	.0	5.8

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 1    0655  84    16.     .2    6.6 *  1    1515 184     0.     .0    5.8 *  1    2335 284     0.     .0    5.8
 1    0700  85    15.     .1    6.6 *  1    1520 185     0.     .0    5.8 *  1    2340 285     0.     .0    5.8
 1    0705  86    14.     .1    6.6 *  1    1525 186     0.     .0    5.8 *  1    2345 286     0.     .0    5.8
 1    0710  87    13.     .1    6.5 *  1    1530 187     0.     .0    5.8 *  1    2350 287     0.     .0    5.8
 1    0715  88    12.     .1    6.5 *  1    1535 188     0.     .0    5.8 *  1    2355 288     0.     .0    5.8
 1    0720  89    11.     .1    6.5 *  1    1540 189     0.     .0    5.8 *  2    0000 289     0.     .0    5.8
 1    0725  90    10.     .1    6.4 *  1    1545 190     0.     .0    5.8 *  2    0005 290     0.     .0    5.8
 1    0730  91     9.     .1    6.4 *  1    1550 191     0.     .0    5.8 *  2    0010 291     0.     .0    5.8
 1    0735  92     8.     .1    6.4 *  1    1555 192     0.     .0    5.8 *  2    0015 292     0.     .0    5.8
 1    0740  93     8.     .1    6.4 *  1    1600 193     0.     .0    5.8 *  2    0020 293     0.     .0    5.8
 1    0745  94     7.     .1    6.4 *  1    1605 194     0.     .0    5.8 *  2    0025 294     0.     .0    5.8
 1    0750  95     6.     .1    6.3 *  1    1610 195     0.     .0    5.8 *  2    0030 295     0.     .0    5.8
 1    0755  96     6.     .1    6.3 *  1    1615 196     0.     .0    5.8 *  2    0035 296     0.     .0    5.8
 1    0800  97     6.     .1    6.3 *  1    1620 197     0.     .0    5.8 *  2    0040 297     0.     .0    5.8
 1    0805  98     5.     .1    6.3 *  1    1625 198     0.     .0    5.8 *  2    0045 298     0.     .0    5.8
 1    0810  99     5.     .1    6.2 *  1    1630 199     0.     .0    5.8 *  2    0050 299     0.     .0    5.8
 1    0815 100     5.     .1    6.2 *  1    1635 200     0.     .0    5.8 *  2    0055 300     0.     .0    5.8
                                     *                                     *
*****************************************************************************************************************

 PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                   6-HR       24-HR       72-HR     24.92-HR
  (CFS)       (HR)
                          (CFS)
    97.       4.75                28.          7.          7.          7.
                        (INCHES)   .634        .645        .645        .645
                         (AC-FT)    14.         14.         14.         14.

PEAK STORAGE   TIME                          MAXIMUM AVERAGE STORAGE
                                   6-HR       24-HR       72-HR     24.92-HR
 (AC-FT)      (HR)
      1.       4.75                 0.          0.          0.          0.

 PEAK STAGE    TIME                          MAXIMUM AVERAGE STAGE
                                   6-HR       24-HR       72-HR     24.92-HR
  (FEET)      (HR)
    7.94       4.75                6.74        6.08        6.07        6.07

                        CUMULATIVE AREA =     .41 SQ MI


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


          **************
          *            *
 34 KK    *   DEVELO   *     PE RAINFALL FOR SUBBASIN G2
          *            *
          **************
                         6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
                         THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
                        L =  .41  Kb = .064  Adj. Slope =   48.9

 44 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
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                QSCAL          0.  HYDROGRAPH PLOT SCALE

          SUBBASIN RUNOFF DATA

38 BA       SUBBASIN CHARACTERISTICS
                TAREA        .04  SUBBASIN AREA

            PRECIPITATION DATA

39 PB           STORM       1.99  BASIN TOTAL PRECIPITATION

11 PI         INCREMENTAL PRECIPITATION PATTERN
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .01       .01       .01       .01       .01       .01       .03
                .03       .03       .05       .05       .05       .15       .15       .15       .03       .03
                .03       .01       .01       .01       .01       .01       .01       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00

40 LG       GREEN AND AMPT LOSS RATE
                STRTL        .43  STARTING LOSS
                  DTH        .25  MOISTURE DEFICIT
                 PSIF       3.50  WETTING FRONT SUCTION
                XKSAT        .51  HYDRAULIC CONDUCTIVITY
                RTIMP      30.00  PERCENT IMPERVIOUS AREA

41 UC       CLARK UNITGRAPH
                  TC        .46  TIME OF CONCENTRATION
                   R        .48  STORAGE COEFFICIENT

42 UA       ACCUMULATED-AREA VS. TIME,  11 ORDINATES
                  .0       5.0      16.0      30.0      65.0      77.0      84.0      90.0      94.0      97.0
               100.0

                                                  ***

                                          UNIT HYDROGRAPH PARAMETERS
                                     CLARK   TC=   .46 HR,       R=   .48 HR
                                    SNYDER   TP=   .32 HR,      CP=   .43

                                          UNIT HYDROGRAPH
                                     33 END-OF-PERIOD ORDINATES
            3.       16.       30.       35.       33.       30.       26.       22.       18.       15.
           13.       11.        9.        8.        6.        5.        5.        4.        3.        3.
            2.        2.        2.        1.        1.        1.        1.        1.        1.        0.
            0.        0.        0.

*****************************************************************************************************************

                                     HYDROGRAPH AT STATION   DEVELO

*****************************************************************************************************************
                                                                 *
     DA MON HRMN  ORD    RAIN    LOSS  EXCESS     COMP Q        *      DA MON HRMN  ORD    RAIN    LOSS  EXCESS     COMP Q
                                                                 *
      1    0000    1     .00     .00     .00         0.         *       1    1230  151     .00     .00     .00         0.
```

1	0005	2	.01	.00	.00	0.	*	1	1235	152	.00	.00	.00	0.
1	0010	3	.01	.00	.00	0.	*	1	1240	153	.00	.00	.00	0.
1	0015	4	.01	.00	.00	0.	*	1	1245	154	.00	.00	.00	0.
1	0020	5	.01	.00	.00	0.	*	1	1250	155	.00	.00	.00	0.
1	0025	6	.01	.00	.00	0.	*	1	1255	156	.00	.00	.00	0.
1	0030	7	.01	.00	.00	0.	*	1	1300	157	.00	.00	.00	0.
1	0035	8	.01	.00	.00	0.	*	1	1305	158	.00	.00	.00	0.
1	0040	9	.01	.00	.00	0.	*	1	1310	159	.00	.00	.00	0.
1	0045	10	.01	.00	.00	0.	*	1	1315	160	.00	.00	.00	0.
1	0050	11	.01	.00	.00	0.	*	1	1320	161	.00	.00	.00	0.
1	0055	12	.01	.00	.00	0.	*	1	1325	162	.00	.00	.00	0.
1	0100	13	.01	.00	.00	0.	*	1	1330	163	.00	.00	.00	0.
1	0105	14	.01	.00	.00	0.	*	1	1335	164	.00	.00	.00	0.
1	0110	15	.01	.00	.00	0.	*	1	1340	165	.00	.00	.00	0.
1	0115	16	.01	.00	.00	0.	*	1	1345	166	.00	.00	.00	0.
1	0120	17	.01	.00	.00	0.	*	1	1350	167	.00	.00	.00	0.
1	0125	18	.01	.00	.00	0.	*	1	1355	168	.00	.00	.00	0.
1	0130	19	.01	.00	.00	0.	*	1	1400	169	.00	.00	.00	0.
1	0135	20	.01	.00	.00	0.	*	1	1405	170	.00	.00	.00	0.
1	0140	21	.01	.00	.00	0.	*	1	1410	171	.00	.00	.00	0.
1	0145	22	.01	.00	.00	0.	*	1	1415	172	.00	.00	.00	0.
1	0150	23	.01	.00	.00	0.	*	1	1420	173	.00	.00	.00	0.
1	0155	24	.01	.00	.00	0.	*	1	1425	174	.00	.00	.00	0.
1	0200	25	.01	.00	.00	0.	*	1	1430	175	.00	.00	.00	0.
1	0205	26	.01	.00	.00	0.	*	1	1435	176	.00	.00	.00	0.
1	0210	27	.01	.00	.00	0.	*	1	1440	177	.00	.00	.00	0.
1	0215	28	.01	.00	.00	0.	*	1	1445	178	.00	.00	.00	0.
1	0220	29	.01	.01	.00	0.	*	1	1450	179	.00	.00	.00	0.
1	0225	30	.01	.01	.00	1.	*	1	1455	180	.00	.00	.00	0.
1	0230	31	.01	.01	.00	1.	*	1	1500	181	.00	.00	.00	0.
1	0235	32	.01	.01	.00	1.	*	1	1505	182	.00	.00	.00	0.
1	0240	33	.01	.01	.00	1.	*	1	1510	183	.00	.00	.00	0.
1	0245	34	.01	.01	.00	1.	*	1	1515	184	.00	.00	.00	0.
1	0250	35	.01	.01	.00	1.	*	1	1520	185	.00	.00	.00	0.
1	0255	36	.01	.01	.00	1.	*	1	1525	186	.00	.00	.00	0.
1	0300	37	.01	.01	.00	1.	*	1	1530	187	.00	.00	.00	0.
1	0305	38	.01	.01	.00	1.	*	1	1535	188	.00	.00	.00	0.
1	0310	39	.01	.01	.00	1.	*	1	1540	189	.00	.00	.00	0.
1	0315	40	.01	.01	.00	1.	*	1	1545	190	.00	.00	.00	0.
1	0320	41	.05	.04	.02	1.	*	1	1550	191	.00	.00	.00	0.
1	0325	42	.05	.04	.02	1.	*	1	1555	192	.00	.00	.00	0.
1	0330	43	.05	.04	.02	2.	*	1	1600	193	.00	.00	.00	0.
1	0335	44	.11	.07	.03	2.	*	1	1605	194	.00	.00	.00	0.
1	0340	45	.11	.07	.03	3.	*	1	1610	195	.00	.00	.00	0.
1	0345	46	.11	.07	.03	4.	*	1	1615	196	.00	.00	.00	0.
1	0350	47	.30	.10	.20	5.	*	1	1620	197	.00	.00	.00	0.
1	0355	48	.30	.08	.22	9.	*	1	1625	198	.00	.00	.00	0.
1	0400	49	.30	.07	.23	15.	*	1	1630	199	.00	.00	.00	0.
1	0405	50	.05	.04	.02	21.	*	1	1635	200	.00	.00	.00	0.
1	0410	51	.05	.04	.02	25.	*	1	1640	201	.00	.00	.00	0.
1	0415	52	.05	.04	.02	25.	*	1	1645	202	.00	.00	.00	0.
1	0420	53	.01	.01	.00	23.	*	1	1650	203	.00	.00	.00	0.
1	0425	54	.01	.01	.00	21.	*	1	1655	204	.00	.00	.00	0.
1	0430	55	.01	.01	.00	18.	*	1	1700	205	.00	.00	.00	0.
1	0435	56	.01	.01	.00	15.	*	1	1705	206	.00	.00	.00	0.
1	0440	57	.01	.01	.00	13.	*	1	1710	207	.00	.00	.00	0.
1	0445	58	.01	.01	.00	11.	*	1	1715	208	.00	.00	.00	0.
1	0450	59	.01	.01	.00	10.	*	1	1720	209	.00	.00	.00	0.

1	0455	60	.01	.01	.00	8.	*	1	1725	210	.00	.00	.00	0.
1	0500	61	.01	.01	.00	7.	*	1	1730	211	.00	.00	.00	0.
1	0505	62	.01	.01	.00	6.	*	1	1735	212	.00	.00	.00	0.
1	0510	63	.01	.01	.00	5.	*	1	1740	213	.00	.00	.00	0.
1	0515	64	.01	.01	.00	4.	*	1	1745	214	.00	.00	.00	0.
1	0520	65	.01	.00	.00	4.	*	1	1750	215	.00	.00	.00	0.
1	0525	66	.01	.00	.00	3.	*	1	1755	216	.00	.00	.00	0.
1	0530	67	.01	.00	.00	3.	*	1	1800	217	.00	.00	.00	0.
1	0535	68	.01	.00	.00	3.	*	1	1805	218	.00	.00	.00	0.
1	0540	69	.01	.00	.00	2.	*	1	1810	219	.00	.00	.00	0.
1	0545	70	.01	.00	.00	2.	*	1	1815	220	.00	.00	.00	0.
1	0550	71	.01	.00	.00	2.	*	1	1820	221	.00	.00	.00	0.
1	0555	72	.01	.00	.00	2.	*	1	1825	222	.00	.00	.00	0.
1	0600	73	.01	.00	.00	1.	*	1	1830	223	.00	.00	.00	0.
1	0605	74	.00	.00	.00	1.	*	1	1835	224	.00	.00	.00	0.
1	0610	75	.00	.00	.00	1.	*	1	1840	225	.00	.00	.00	0.
1	0615	76	.00	.00	.00	1.	*	1	1845	226	.00	.00	.00	0.
1	0620	77	.00	.00	.00	1.	*	1	1850	227	.00	.00	.00	0.
1	0625	78	.00	.00	.00	1.	*	1	1855	228	.00	.00	.00	0.
1	0630	79	.00	.00	.00	1.	*	1	1900	229	.00	.00	.00	0.
1	0635	80	.00	.00	.00	0.	*	1	1905	230	.00	.00	.00	0.
1	0640	81	.00	.00	.00	0.	*	1	1910	231	.00	.00	.00	0.
1	0645	82	.00	.00	.00	0.	*	1	1915	232	.00	.00	.00	0.
1	0650	83	.00	.00	.00	0.	*	1	1920	233	.00	.00	.00	0.
1	0655	84	.00	.00	.00	0.	*	1	1925	234	.00	.00	.00	0.
1	0700	85	.00	.00	.00	0.	*	1	1930	235	.00	.00	.00	0.
1	0705	86	.00	.00	.00	0.	*	1	1935	236	.00	.00	.00	0.
1	0710	87	.00	.00	.00	0.	*	1	1940	237	.00	.00	.00	0.
1	0715	88	.00	.00	.00	0.	*	1	1945	238	.00	.00	.00	0.
1	0720	89	.00	.00	.00	0.	*	1	1950	239	.00	.00	.00	0.
1	0725	90	.00	.00	.00	0.	*	1	1955	240	.00	.00	.00	0.
1	0730	91	.00	.00	.00	0.	*	1	2000	241	.00	.00	.00	0.
1	0735	92	.00	.00	.00	0.	*	1	2005	242	.00	.00	.00	0.
1	0740	93	.00	.00	.00	0.	*	1	2010	243	.00	.00	.00	0.
1	0745	94	.00	.00	.00	0.	*	1	2015	244	.00	.00	.00	0.
1	0750	95	.00	.00	.00	0.	*	1	2020	245	.00	.00	.00	0.
1	0755	96	.00	.00	.00	0.	*	1	2025	246	.00	.00	.00	0.
1	0800	97	.00	.00	.00	0.	*	1	2030	247	.00	.00	.00	0.
1	0805	98	.00	.00	.00	0.	*	1	2035	248	.00	.00	.00	0.
1	0810	99	.00	.00	.00	0.	*	1	2040	249	.00	.00	.00	0.
1	0815	100	.00	.00	.00	0.	*	1	2045	250	.00	.00	.00	0.
1	0820	101	.00	.00	.00	0.	*	1	2050	251	.00	.00	.00	0.
1	0825	102	.00	.00	.00	0.	*	1	2055	252	.00	.00	.00	0.
1	0830	103	.00	.00	.00	0.	*	1	2100	253	.00	.00	.00	0.
1	0835	104	.00	.00	.00	0.	*	1	2105	254	.00	.00	.00	0.
1	0840	105	.00	.00	.00	0.	*	1	2110	255	.00	.00	.00	0.
1	0845	106	.00	.00	.00	0.	*	1	2115	256	.00	.00	.00	0.
1	0850	107	.00	.00	.00	0.	*	1	2120	257	.00	.00	.00	0.
1	0855	108	.00	.00	.00	0.	*	1	2125	258	.00	.00	.00	0.
1	0900	109	.00	.00	.00	0.	*	1	2130	259	.00	.00	.00	0.
1	0905	110	.00	.00	.00	0.	*	1	2135	260	.00	.00	.00	0.
1	0910	111	.00	.00	.00	0.	*	1	2140	261	.00	.00	.00	0.
1	0915	112	.00	.00	.00	0.	*	1	2145	262	.00	.00	.00	0.
1	0920	113	.00	.00	.00	0.	*	1	2150	263	.00	.00	.00	0.
1	0925	114	.00	.00	.00	0.	*	1	2155	264	.00	.00	.00	0.
1	0930	115	.00	.00	.00	0.	*	1	2200	265	.00	.00	.00	0.
1	0935	116	.00	.00	.00	0.	*	1	2205	266	.00	.00	.00	0.
1	0940	117	.00	.00	.00	0.	*	1	2210	267	.00	.00	.00	0.

1	0945	118	.00	.00	.00	0.	*	1	2215	268	.00	.00	.00	0.
1	0950	119	.00	.00	.00	0.	*	1	2220	269	.00	.00	.00	0.
1	0955	120	.00	.00	.00	0.	*	1	2225	270	.00	.00	.00	0.
1	1000	121	.00	.00	.00	0.	*	1	2230	271	.00	.00	.00	0.
1	1005	122	.00	.00	.00	0.	*	1	2235	272	.00	.00	.00	0.
1	1010	123	.00	.00	.00	0.	*	1	2240	273	.00	.00	.00	0.
1	1015	124	.00	.00	.00	0.	*	1	2245	274	.00	.00	.00	0.
1	1020	125	.00	.00	.00	0.	*	1	2250	275	.00	.00	.00	0.
1	1025	126	.00	.00	.00	0.	*	1	2255	276	.00	.00	.00	0.
1	1030	127	.00	.00	.00	0.	*	1	2300	277	.00	.00	.00	0.
1	1035	128	.00	.00	.00	0.	*	1	2305	278	.00	.00	.00	0.
1	1040	129	.00	.00	.00	0.	*	1	2310	279	.00	.00	.00	0.
1	1045	130	.00	.00	.00	0.	*	1	2315	280	.00	.00	.00	0.
1	1050	131	.00	.00	.00	0.	*	1	2320	281	.00	.00	.00	0.
1	1055	132	.00	.00	.00	0.	*	1	2325	282	.00	.00	.00	0.
1	1100	133	.00	.00	.00	0.	*	1	2330	283	.00	.00	.00	0.
1	1105	134	.00	.00	.00	0.	*	1	2335	284	.00	.00	.00	0.
1	1110	135	.00	.00	.00	0.	*	1	2340	285	.00	.00	.00	0.
1	1115	136	.00	.00	.00	0.	*	1	2345	286	.00	.00	.00	0.
1	1120	137	.00	.00	.00	0.	*	1	2350	287	.00	.00	.00	0.
1	1125	138	.00	.00	.00	0.	*	1	2355	288	.00	.00	.00	0.
1	1130	139	.00	.00	.00	0.	*	2	0000	289	.00	.00	.00	0.
1	1135	140	.00	.00	.00	0.	*	2	0005	290	.00	.00	.00	0.
1	1140	141	.00	.00	.00	0.	*	2	0010	291	.00	.00	.00	0.
1	1145	142	.00	.00	.00	0.	*	2	0015	292	.00	.00	.00	0.
1	1150	143	.00	.00	.00	0.	*	2	0020	293	.00	.00	.00	0.
1	1155	144	.00	.00	.00	0.	*	2	0025	294	.00	.00	.00	0.
1	1200	145	.00	.00	.00	0.	*	2	0030	295	.00	.00	.00	0.
1	1205	146	.00	.00	.00	0.	*	2	0035	296	.00	.00	.00	0.
1	1210	147	.00	.00	.00	0.	*	2	0040	297	.00	.00	.00	0.
1	1215	148	.00	.00	.00	0.	*	2	0045	298	.00	.00	.00	0.
1	1220	149	.00	.00	.00	0.	*	2	0050	299	.00	.00	.00	0.
1	1225	150	.00	.00	.00	0.	*	2	0055	300	.00	.00	.00	0.
							*							

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TOTAL RAINFALL = 1.99, TOTAL LOSS = 1.01, TOTAL EXCESS = .98

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
25.	4.25		4.	1.	1.	1.
		(INCHES)	.968	.975	.975	.975
		(AC-FT)	2.	2.	2.	2.

CUMULATIVE AREA = .04 SQ MI

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          *            *
45 KK     *    Node7   *
          *            *
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Route flow through basin to remove developed area storage

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52 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          2  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL         0.  HYDROGRAPH PLOT SCALE

             HYDROGRAPH ROUTING DATA

47 RS          STORAGE ROUTING
                     NSTPS          1  NUMBER OF SUBREACHES
                      ITYP       STOR  TYPE OF INITIAL CONDITION
                    RSVRIC        .00  INITIAL CONDITION
                         X        .00 WORKING R AND D COEFFICIENT

48 SV            STORAGE        .0      2.1      2.2      2.2      2.2      2.2      2.2      2.2      2.3      2.5
                               2.8

50 SQ          DISCHARGE        0.       0.      20.      30.      40.      50.      60.      70.     100.     150.
                              200.
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*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 0. TO 100.
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

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HYDROGRAPH AT STATION Node7

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DA	MON	HRMN	ORD	OUTFLOW	STORAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE
1		0000	1	0.	.00	*	1		0820	101	0.	2.08	*	1		1640	201	0.	2.08
1		0005	2	0.	.00	*	1		0825	102	0.	2.08	*	1		1645	202	0.	2.08
1		0010	3	0.	.00	*	1		0830	103	0.	2.08	*	1		1650	203	0.	2.08
1		0015	4	0.	.00	*	1		0835	104	0.	2.08	*	1		1655	204	0.	2.08
1		0020	5	0.	.00	*	1		0840	105	0.	2.08	*	1		1700	205	0.	2.08
1		0025	6	0.	.00	*	1		0845	106	0.	2.08	*	1		1705	206	0.	2.08
1		0030	7	0.	.00	*	1		0850	107	0.	2.08	*	1		1710	207	0.	2.08
1		0035	8	0.	.01	*	1		0855	108	0.	2.08	*	1		1715	208	0.	2.08
1		0040	9	0.	.01	*	1		0900	109	0.	2.08	*	1		1720	209	0.	2.08
1		0045	10	0.	.01	*	1		0905	110	0.	2.08	*	1		1725	210	0.	2.08
1		0050	11	0.	.01	*	1		0910	111	0.	2.08	*	1		1730	211	0.	2.08
1		0055	12	0.	.02	*	1		0915	112	0.	2.08	*	1		1735	212	0.	2.08
1		0100	13	0.	.02	*	1		0920	113	0.	2.08	*	1		1740	213	0.	2.08
1		0105	14	0.	.02	*	1		0925	114	0.	2.08	*	1		1745	214	0.	2.08
1		0110	15	0.	.02	*	1		0930	115	0.	2.08	*	1		1750	215	0.	2.08
1		0115	16	0.	.03	*	1		0935	116	0.	2.08	*	1		1755	216	0.	2.08
1		0120	17	0.	.03	*	1		0940	117	0.	2.08	*	1		1800	217	0.	2.08
1		0125	18	0.	.03	*	1		0945	118	0.	2.08	*	1		1805	218	0.	2.08
1		0130	19	0.	.04	*	1		0950	119	0.	2.08	*	1		1810	219	0.	2.08
1		0135	20	0.	.04	*	1		0955	120	0.	2.08	*	1		1815	220	0.	2.08
1		0140	21	0.	.04	*	1		1000	121	0.	2.08	*	1		1820	221	0.	2.08
1		0145	22	0.	.05	*	1		1005	122	0.	2.08	*	1		1825	222	0.	2.08

1	0150	23	0.	.05	*	1	1010	123	0.	2.08	*	1	1830	223	0.	2.08
1	0155	24	0.	.05	*	1	1015	124	0.	2.08	*	1	1835	224	0.	2.08
1	0200	25	0.	.06	*	1	1020	125	0.	2.08	*	1	1840	225	0.	2.08
1	0205	26	0.	.06	*	1	1025	126	0.	2.08	*	1	1845	226	0.	2.08
1	0210	27	0.	.06	*	1	1030	127	0.	2.08	*	1	1850	227	0.	2.08
1	0215	28	0.	.07	*	1	1035	128	0.	2.08	*	1	1855	228	0.	2.08
1	0220	29	0.	.07	*	1	1040	129	0.	2.08	*	1	1900	229	0.	2.08
1	0225	30	0.	.07	*	1	1045	130	0.	2.08	*	1	1905	230	0.	2.08
1	0230	31	0.	.08	*	1	1050	131	0.	2.08	*	1	1910	231	0.	2.08
1	0235	32	0.	.08	*	1	1055	132	0.	2.08	*	1	1915	232	0.	2.08
1	0240	33	0.	.09	*	1	1100	133	0.	2.08	*	1	1920	233	0.	2.08
1	0245	34	0.	.09	*	1	1105	134	0.	2.08	*	1	1925	234	0.	2.08
1	0250	35	0.	.09	*	1	1110	135	0.	2.08	*	1	1930	235	0.	2.08
1	0255	36	0.	.10	*	1	1115	136	0.	2.08	*	1	1935	236	0.	2.08
1	0300	37	0.	.10	*	1	1120	137	0.	2.08	*	1	1940	237	0.	2.08
1	0305	38	0.	.11	*	1	1125	138	0.	2.08	*	1	1945	238	0.	2.08
1	0310	39	0.	.12	*	1	1130	139	0.	2.08	*	1	1950	239	0.	2.08
1	0315	40	0.	.12	*	1	1135	140	0.	2.08	*	1	1955	240	0.	2.08
1	0320	41	0.	.13	*	1	1140	141	0.	2.08	*	1	2000	241	0.	2.08
1	0325	42	0.	.14	*	1	1145	142	0.	2.08	*	1	2005	242	0.	2.08
1	0330	43	0.	.15	*	1	1150	143	0.	2.08	*	1	2010	243	0.	2.08
1	0335	44	0.	.16	*	1	1155	144	0.	2.08	*	1	2015	244	0.	2.08
1	0340	45	0.	.18	*	1	1200	145	0.	2.08	*	1	2020	245	0.	2.08
1	0345	46	0.	.20	*	1	1205	146	0.	2.08	*	1	2025	246	0.	2.08
1	0350	47	0.	.23	*	1	1210	147	0.	2.08	*	1	2030	247	0.	2.08
1	0355	48	0.	.28	*	1	1215	148	0.	2.08	*	1	2035	248	0.	2.08
1	0400	49	0.	.36	*	1	1220	149	0.	2.08	*	1	2040	249	0.	2.08
1	0405	50	0.	.48	*	1	1225	150	0.	2.08	*	1	2045	250	0.	2.08
1	0410	51	0.	.64	*	1	1230	151	0.	2.08	*	1	2050	251	0.	2.08
1	0415	52	0.	.82	*	1	1235	152	0.	2.08	*	1	2055	252	0.	2.08
1	0420	53	0.	.98	*	1	1240	153	0.	2.08	*	1	2100	253	0.	2.08
1	0425	54	0.	1.13	*	1	1245	154	0.	2.08	*	1	2105	254	0.	2.08
1	0430	55	0.	1.27	*	1	1250	155	0.	2.08	*	1	2110	255	0.	2.08
1	0435	56	0.	1.38	*	1	1255	156	0.	2.08	*	1	2115	256	0.	2.08
1	0440	57	0.	1.48	*	1	1300	157	0.	2.08	*	1	2120	257	0.	2.08
1	0445	58	0.	1.57	*	1	1305	158	0.	2.08	*	1	2125	258	0.	2.08
1	0450	59	0.	1.64	*	1	1310	159	0.	2.08	*	1	2130	259	0.	2.08
1	0455	60	0.	1.70	*	1	1315	160	0.	2.08	*	1	2135	260	0.	2.08
1	0500	61	0.	1.75	*	1	1320	161	0.	2.08	*	1	2140	261	0.	2.08
1	0505	62	0.	1.80	*	1	1325	162	0.	2.08	*	1	2145	262	0.	2.08
1	0510	63	0.	1.84	*	1	1330	163	0.	2.08	*	1	2150	263	0.	2.08
1	0515	64	0.	1.87	*	1	1335	164	0.	2.08	*	1	2155	264	0.	2.08
1	0520	65	0.	1.90	*	1	1340	165	0.	2.08	*	1	2200	265	0.	2.08
1	0525	66	0.	1.92	*	1	1345	166	0.	2.08	*	1	2205	266	0.	2.08
1	0530	67	0.	1.94	*	1	1350	167	0.	2.08	*	1	2210	267	0.	2.08
1	0535	68	0.	1.96	*	1	1355	168	0.	2.08	*	1	2215	268	0.	2.08
1	0540	69	0.	1.98	*	1	1400	169	0.	2.08	*	1	2220	269	0.	2.08
1	0545	70	0.	1.99	*	1	1405	170	0.	2.08	*	1	2225	270	0.	2.08
1	0550	71	0.	2.01	*	1	1410	171	0.	2.08	*	1	2230	271	0.	2.08
1	0555	72	0.	2.02	*	1	1415	172	0.	2.08	*	1	2235	272	0.	2.08
1	0600	73	0.	2.03	*	1	1420	173	0.	2.08	*	1	2240	273	0.	2.08
1	0605	74	0.	2.04	*	1	1425	174	0.	2.08	*	1	2245	274	0.	2.08
1	0610	75	0.	2.04	*	1	1430	175	0.	2.08	*	1	2250	275	0.	2.08
1	0615	76	0.	2.05	*	1	1435	176	0.	2.08	*	1	2255	276	0.	2.08
1	0620	77	0.	2.06	*	1	1440	177	0.	2.08	*	1	2300	277	0.	2.08
1	0625	78	0.	2.06	*	1	1445	178	0.	2.08	*	1	2305	278	0.	2.08
1	0630	79	0.	2.07	*	1	1450	179	0.	2.08	*	1	2310	279	0.	2.08
1	0635	80	0.	2.07	*	1	1455	180	0.	2.08	*	1	2315	280	0.	2.08

1	0640	81	0.	2.07	*	1	1500	181	0.	2.08	*	1	2320	281	0.	2.08
1	0645	82	0.	2.07	*	1	1505	182	0.	2.08	*	1	2325	282	0.	2.08
1	0650	83	0.	2.07	*	1	1510	183	0.	2.08	*	1	2330	283	0.	2.08
1	0655	84	0.	2.08	*	1	1515	184	0.	2.08	*	1	2335	284	0.	2.08
1	0700	85	0.	2.08	*	1	1520	185	0.	2.08	*	1	2340	285	0.	2.08
1	0705	86	0.	2.08	*	1	1525	186	0.	2.08	*	1	2345	286	0.	2.08
1	0710	87	0.	2.08	*	1	1530	187	0.	2.08	*	1	2350	287	0.	2.08
1	0715	88	0.	2.08	*	1	1535	188	0.	2.08	*	1	2355	288	0.	2.08
1	0720	89	0.	2.08	*	1	1540	189	0.	2.08	*	2	0000	289	0.	2.08
1	0725	90	0.	2.08	*	1	1545	190	0.	2.08	*	2	0005	290	0.	2.08
1	0730	91	0.	2.08	*	1	1550	191	0.	2.08	*	2	0010	291	0.	2.08
1	0735	92	0.	2.08	*	1	1555	192	0.	2.08	*	2	0015	292	0.	2.08
1	0740	93	0.	2.08	*	1	1600	193	0.	2.08	*	2	0020	293	0.	2.08
1	0745	94	0.	2.08	*	1	1605	194	0.	2.08	*	2	0025	294	0.	2.08
1	0750	95	0.	2.08	*	1	1610	195	0.	2.08	*	2	0030	295	0.	2.08
1	0755	96	0.	2.08	*	1	1615	196	0.	2.08	*	2	0035	296	0.	2.08
1	0800	97	0.	2.08	*	1	1620	197	0.	2.08	*	2	0040	297	0.	2.08
1	0805	98	0.	2.08	*	1	1625	198	0.	2.08	*	2	0045	298	0.	2.08
1	0810	99	0.	2.08	*	1	1630	199	0.	2.08	*	2	0050	299	0.	2.08
1	0815	100	0.	2.08	*	1	1635	200	0.	2.08	*	2	0055	300	0.	2.08
					*						*					

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)					
		(CFS)				
0.	.08		0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
(AC-FT)	(HR)				
2.	7.58	2.	2.	2.	2.

CUMULATIVE AREA = .04 SQ MI

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          **************
          *            *
 53 KK    *   Node11   *
          *            *
          **************
                    conflunce g1 and g2

 56 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          2  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL         0.  HYDROGRAPH PLOT SCALE

 55 HC          HYDROGRAPH COMBINATION
                     ICOMP          2  NUMBER OF HYDROGRAPHS TO COMBINE
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HYDROGRAPH AT STATION Node11
SUM OF 2 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	31.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	28.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	26.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	24.	1		1245	154	0.	1		1900	229	0.
1		0020	5	0.	1		0635	80	22.	1		1250	155	0.	1		1905	230	0.
1		0025	6	0.	1		0640	81	21.	1		1255	156	0.	1		1910	231	0.
1		0030	7	0.	1		0645	82	19.	1		1300	157	0.	1		1915	232	0.
1		0035	8	0.	1		0650	83	18.	1		1305	158	0.	1		1920	233	0.
1		0040	9	0.	1		0655	84	16.	1		1310	159	0.	1		1925	234	0.
1		0045	10	0.	1		0700	85	15.	1		1315	160	0.	1		1930	235	0.
1		0050	11	0.	1		0705	86	14.	1		1320	161	0.	1		1935	236	0.
1		0055	12	0.	1		0710	87	13.	1		1325	162	0.	1		1940	237	0.
1		0100	13	0.	1		0715	88	12.	1		1330	163	0.	1		1945	238	0.
1		0105	14	0.	1		0720	89	11.	1		1335	164	0.	1		1950	239	0.
1		0110	15	0.	1		0725	90	10.	1		1340	165	0.	1		1955	240	0.
1		0115	16	0.	1		0730	91	9.	1		1345	166	0.	1		2000	241	0.
1		0120	17	1.	1		0735	92	8.	1		1350	167	0.	1		2005	242	0.
1		0125	18	1.	1		0740	93	8.	1		1355	168	0.	1		2010	243	0.
1		0130	19	1.	1		0745	94	7.	1		1400	169	0.	1		2015	244	0.
1		0135	20	1.	1		0750	95	6.	1		1405	170	0.	1		2020	245	0.
1		0140	21	1.	1		0755	96	6.	1		1410	171	0.	1		2025	246	0.
1		0145	22	1.	1		0800	97	6.	1		1415	172	0.	1		2030	247	0.
1		0150	23	1.	1		0805	98	5.	1		1420	173	0.	1		2035	248	0.
1		0155	24	1.	1		0810	99	5.	1		1425	174	0.	1		2040	249	0.
1		0200	25	1.	1		0815	100	5.	1		1430	175	0.	1		2045	250	0.
1		0205	26	1.	1		0820	101	4.	1		1435	176	0.	1		2050	251	0.
1		0210	27	1.	1		0825	102	4.	1		1440	177	0.	1		2055	252	0.
1		0215	28	1.	1		0830	103	4.	1		1445	178	0.	1		2100	253	0.
1		0220	29	1.	1		0835	104	3.	1		1450	179	0.	1		2105	254	0.
1		0225	30	1.	1		0840	105	3.	1		1455	180	0.	1		2110	255	0.
1		0230	31	1.	1		0845	106	3.	1		1500	181	0.	1		2115	256	0.
1		0235	32	1.	1		0850	107	3.	1		1505	182	0.	1		2120	257	0.
1		0240	33	1.	1		0855	108	2.	1		1510	183	0.	1		2125	258	0.
1		0245	34	1.	1		0900	109	2.	1		1515	184	0.	1		2130	259	0.
1		0250	35	1.	1		0905	110	2.	1		1520	185	0.	1		2135	260	0.
1		0255	36	1.	1		0910	111	2.	1		1525	186	0.	1		2140	261	0.
1		0300	37	1.	1		0915	112	2.	1		1530	187	0.	1		2145	262	0.
1		0305	38	1.	1		0920	113	2.	1		1535	188	0.	1		2150	263	0.
1		0310	39	1.	1		0925	114	1.	1		1540	189	0.	1		2155	264	0.
1		0315	40	1.	1		0930	115	1.	1		1545	190	0.	1		2200	265	0.
1		0320	41	1.	1		0935	116	1.	1		1550	191	0.	1		2205	266	0.
1		0325	42	1.	1		0940	117	1.	1		1555	192	0.	1		2210	267	0.
1		0330	43	2.	1		0945	118	1.	1		1600	193	0.	1		2215	268	0.
1		0335	44	2.	1		0950	119	1.	1		1605	194	0.	1		2220	269	0.
1		0340	45	2.	1		0955	120	0.	1		1610	195	0.	1		2225	270	0.
1		0345	46	2.	1		1000	121	0.	1		1615	196	0.	1		2230	271	0.

1	0350	47	3.	*	1	1005	122	0.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	4.	*	1	1010	123	0.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	6.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	12.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	21.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	32.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	45.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	64.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	80.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	91.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	96.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	97.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	95.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	93.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	90.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	87.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	83.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	78.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	74.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	69.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	64.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	59.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	54.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	50.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	46.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	43.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	39.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	36.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	33.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
97.	4.75		28.	7.	7.	7.
		(INCHES)	.578	.588	.588	.588
		(AC-FT)	14.	14.	14.	14.

CUMULATIVE AREA = .45 SQ MI

*** ***

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          **************
          *            *
57 KK     *   Node10   *
          *            *
          **************
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Route water from culverts to middle of subdivision

63 KO OUTPUT CONTROL VARIABLES

IPRNT 2 PRINT CONTROL

IPLOT 0 PLOT CONTROL

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                QSCAL          0.  HYDROGRAPH PLOT SCALE

          HYDROGRAPH ROUTING DATA

59 RS       STORAGE ROUTING
                NSTPS          1  NUMBER OF SUBREACHES
                 ITYP       STOR  TYPE OF INITIAL CONDITION
               RSVRIC        .00  INITIAL CONDITION
                    X        .00 WORKING R AND D COEFFICIENT

60 RC       NORMAL DEPTH CHANNEL
                  ANL       .035  LEFT OVERBANK N-VALUE
                 ANCH       .035  MAIN CHANNEL N-VALUE
                  ANR       .035  RIGHT OVERBANK N-VALUE
                RLNTH       650.  REACH LENGTH
                  SEL      .0022  ENERGY SLOPE
                ELMAX       15.0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                  CROSS-SECTION DATA
                     --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
62 RY     ELEVATION    15.00    11.00    10.00     5.85     5.85    10.00    11.00    15.00
61 RX     DISTANCE       .00    20.00   120.00   136.60   146.60   162.20   262.20   282.20

                                                  ***

                                  COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

        STORAGE      .00      .09      .20      .34      .50      .69      .91     1.16     1.43     1.78
        OUTFLOW      .00     6.32    21.74    46.35    81.01   126.67   184.32   254.90   339.36   449.06
      ELEVATION     5.85     6.33     6.81     7.29     7.78     8.26     8.74     9.22     9.70    10.18

        STORAGE     2.70     4.27     6.04     7.84     9.68    11.55    13.46    15.40    17.38    19.39
        OUTFLOW   628.29   931.10  1390.33  1963.47  2640.18  3413.96  4280.30  5235.91  6278.27  7405.46
      ELEVATION    10.67    11.15    11.63    12.11    12.59    13.07    13.56    14.04    14.52    15.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN      255. TO     7405.
                THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
                THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

*****************************************************************************************************************************

                                  HYDROGRAPH AT STATION   Node10

*****************************************************************************************************************************
                                        *                                        *
DA MON HRMN ORD  OUTFLOW  STORAGE   STAGE * DA MON HRMN ORD  OUTFLOW  STORAGE   STAGE * DA MON HRMN ORD  OUTFLOW  STORAGE   STAGE
                                        *                                        *
 1    0000  1      0.       .0     5.8 *  1    0820 101      5.       .1     6.2 *  1    1640 201      0.       .0     5.8
 1    0005  2      0.       .0     5.9 *  1    0825 102      5.       .1     6.2 *  1    1645 202      0.       .0     5.8
 1    0010  3      0.       .0     5.9 *  1    0830 103      4.       .1     6.2 *  1    1650 203      0.       .0     5.8
 1    0015  4      0.       .0     5.9 *  1    0835 104      4.       .1     6.1 *  1    1655 204      0.       .0     5.8
 1    0020  5      0.       .0     5.9 *  1    0840 105      4.       .0     6.1 *  1    1700 205      0.       .0     5.8
 1    0025  6      0.       .0     5.9 *  1    0845 106      3.       .0     6.1 *  1    1705 206      0.       .0     5.8
 1    0030  7      0.       .0     5.9 *  1    0850 107      3.       .0     6.1 *  1    1710 207      0.       .0     5.8
 1    0035  8      0.       .0     5.9 *  1    0855 108      3.       .0     6.1 *  1    1715 208      0.       .0     5.8
 1    0040  9      0.       .0     5.9 *  1    0900 109      3.       .0     6.0 *  1    1720 209      0.       .0     5.8
 1    0045 10      0.       .0     5.9 *  1    0905 110      2.       .0     6.0 *  1    1725 210      0.       .0     5.8
```

1	0050	11	0.	.0	5.9	*	1	0910	111	2.	.0	6.0	*	1	1730	211	0.	.0	5.8
1	0055	12	0.	.0	5.9	*	1	0915	112	2.	.0	6.0	*	1	1735	212	0.	.0	5.8
1	0100	13	0.	.0	5.9	*	1	0920	113	2.	.0	6.0	*	1	1740	213	0.	.0	5.8
1	0105	14	0.	.0	5.9	*	1	0925	114	2.	.0	6.0	*	1	1745	214	0.	.0	5.8
1	0110	15	0.	.0	5.9	*	1	0930	115	2.	.0	6.0	*	1	1750	215	0.	.0	5.8
1	0115	16	0.	.0	5.9	*	1	0935	116	1.	.0	6.0	*	1	1755	216	0.	.0	5.8
1	0120	17	0.	.0	5.9	*	1	0940	117	1.	.0	5.9	*	1	1800	217	0.	.0	5.8
1	0125	18	0.	.0	5.9	*	1	0945	118	1.	.0	5.9	*	1	1805	218	0.	.0	5.8
1	0130	19	1.	.0	5.9	*	1	0950	119	1.	.0	5.9	*	1	1810	219	0.	.0	5.8
1	0135	20	1.	.0	5.9	*	1	0955	120	1.	.0	5.9	*	1	1815	220	0.	.0	5.8
1	0140	21	1.	.0	5.9	*	1	1000	121	1.	.0	5.9	*	1	1820	221	0.	.0	5.8
1	0145	22	1.	.0	5.9	*	1	1005	122	0.	.0	5.9	*	1	1825	222	0.	.0	5.8
1	0150	23	1.	.0	5.9	*	1	1010	123	0.	.0	5.9	*	1	1830	223	0.	.0	5.8
1	0155	24	1.	.0	5.9	*	1	1015	124	0.	.0	5.9	*	1	1835	224	0.	.0	5.8
1	0200	25	1.	.0	5.9	*	1	1020	125	0.	.0	5.9	*	1	1840	225	0.	.0	5.8
1	0205	26	1.	.0	5.9	*	1	1025	126	0.	.0	5.9	*	1	1845	226	0.	.0	5.8
1	0210	27	1.	.0	5.9	*	1	1030	127	0.	.0	5.9	*	1	1850	227	0.	.0	5.8
1	0215	28	1.	.0	5.9	*	1	1035	128	0.	.0	5.9	*	1	1855	228	0.	.0	5.8
1	0220	29	1.	.0	5.9	*	1	1040	129	0.	.0	5.9	*	1	1900	229	0.	.0	5.8
1	0225	30	1.	.0	5.9	*	1	1045	130	0.	.0	5.9	*	1	1905	230	0.	.0	5.8
1	0230	31	1.	.0	5.9	*	1	1050	131	0.	.0	5.9	*	1	1910	231	0.	.0	5.8
1	0235	32	1.	.0	5.9	*	1	1055	132	0.	.0	5.9	*	1	1915	232	0.	.0	5.8
1	0240	33	1.	.0	5.9	*	1	1100	133	0.	.0	5.9	*	1	1920	233	0.	.0	5.8
1	0245	34	1.	.0	5.9	*	1	1105	134	0.	.0	5.9	*	1	1925	234	0.	.0	5.8
1	0250	35	1.	.0	5.9	*	1	1110	135	0.	.0	5.9	*	1	1930	235	0.	.0	5.8
1	0255	36	1.	.0	5.9	*	1	1115	136	0.	.0	5.9	*	1	1935	236	0.	.0	5.8
1	0300	37	1.	.0	5.9	*	1	1120	137	0.	.0	5.9	*	1	1940	237	0.	.0	5.8
1	0305	38	1.	.0	5.9	*	1	1125	138	0.	.0	5.9	*	1	1945	238	0.	.0	5.8
1	0310	39	1.	.0	5.9	*	1	1130	139	0.	.0	5.9	*	1	1950	239	0.	.0	5.8
1	0315	40	1.	.0	5.9	*	1	1135	140	0.	.0	5.9	*	1	1955	240	0.	.0	5.8
1	0320	41	1.	.0	5.9	*	1	1140	141	0.	.0	5.9	*	1	2000	241	0.	.0	5.8
1	0325	42	1.	.0	6.0	*	1	1145	142	0.	.0	5.9	*	1	2005	242	0.	.0	5.8
1	0330	43	1.	.0	6.0	*	1	1150	143	0.	.0	5.9	*	1	2010	243	0.	.0	5.8
1	0335	44	2.	.0	6.0	*	1	1155	144	0.	.0	5.9	*	1	2015	244	0.	.0	5.8
1	0340	45	2.	.0	6.0	*	1	1200	145	0.	.0	5.9	*	1	2020	245	0.	.0	5.8
1	0345	46	2.	.0	6.0	*	1	1205	146	0.	.0	5.9	*	1	2025	246	0.	.0	5.8
1	0350	47	2.	.0	6.0	*	1	1210	147	0.	.0	5.9	*	1	2030	247	0.	.0	5.8
1	0355	48	3.	.0	6.0	*	1	1215	148	0.	.0	5.9	*	1	2035	248	0.	.0	5.8
1	0400	49	3.	.0	6.1	*	1	1220	149	0.	.0	5.9	*	1	2040	249	0.	.0	5.8
1	0405	50	6.	.1	6.3	*	1	1225	150	0.	.0	5.9	*	1	2045	250	0.	.0	5.8
1	0410	51	12.	.1	6.5	*	1	1230	151	0.	.0	5.9	*	1	2050	251	0.	.0	5.8
1	0415	52	21.	.2	6.8	*	1	1235	152	0.	.0	5.9	*	1	2055	252	0.	.0	5.8
1	0420	53	34.	.3	7.1	*	1	1240	153	0.	.0	5.9	*	1	2100	253	0.	.0	5.8
1	0425	54	50.	.4	7.3	*	1	1245	154	0.	.0	5.9	*	1	2105	254	0.	.0	5.8
1	0430	55	68.	.4	7.6	*	1	1250	155	0.	.0	5.9	*	1	2110	255	0.	.0	5.8
1	0435	56	83.	.5	7.8	*	1	1255	156	0.	.0	5.9	*	1	2115	256	0.	.0	5.8
1	0440	57	92.	.5	7.9	*	1	1300	157	0.	.0	5.9	*	1	2120	257	0.	.0	5.8
1	0445	58	96.	.6	7.9	*	1	1305	158	0.	.0	5.9	*	1	2125	258	0.	.0	5.8
1	0450	59	96.	.6	7.9	*	1	1310	159	0.	.0	5.9	*	1	2130	259	0.	.0	5.8
1	0455	60	95.	.6	7.9	*	1	1315	160	0.	.0	5.8	*	1	2135	260	0.	.0	5.8
1	0500	61	92.	.5	7.9	*	1	1320	161	0.	.0	5.8	*	1	2140	261	0.	.0	5.8
1	0505	62	89.	.5	7.9	*	1	1325	162	0.	.0	5.8	*	1	2145	262	0.	.0	5.8
1	0510	63	85.	.5	7.8	*	1	1330	163	0.	.0	5.8	*	1	2150	263	0.	.0	5.8
1	0515	64	81.	.5	7.8	*	1	1335	164	0.	.0	5.8	*	1	2155	264	0.	.0	5.8
1	0520	65	77.	.5	7.7	*	1	1340	165	0.	.0	5.8	*	1	2200	265	0.	.0	5.8
1	0525	66	72.	.5	7.7	*	1	1345	166	0.	.0	5.8	*	1	2205	266	0.	.0	5.8
1	0530	67	67.	.4	7.6	*	1	1350	167	0.	.0	5.8	*	1	2210	267	0.	.0	5.8
1	0535	68	62.	.4	7.5	*	1	1355	168	0.	.0	5.8	*	1	2215	268	0.	.0	5.8

1	0540	69	57.	.4	7.4	*	1	1400	169	0.	.0	5.8	*	1	2220	269	0.	.0	5.8
1	0545	70	53.	.4	7.4	*	1	1405	170	0.	.0	5.8	*	1	2225	270	0.	.0	5.8
1	0550	71	49.	.3	7.3	*	1	1410	171	0.	.0	5.8	*	1	2230	271	0.	.0	5.8
1	0555	72	45.	.3	7.3	*	1	1415	172	0.	.0	5.8	*	1	2235	272	0.	.0	5.8
1	0600	73	42.	.3	7.2	*	1	1420	173	0.	.0	5.8	*	1	2240	273	0.	.0	5.8
1	0605	74	39.	.3	7.1	*	1	1425	174	0.	.0	5.8	*	1	2245	274	0.	.0	5.8
1	0610	75	36.	.3	7.1	*	1	1430	175	0.	.0	5.8	*	1	2250	275	0.	.0	5.8
1	0615	76	33.	.3	7.0	*	1	1435	176	0.	.0	5.8	*	1	2255	276	0.	.0	5.8
1	0620	77	30.	.2	7.0	*	1	1440	177	0.	.0	5.8	*	1	2300	277	0.	.0	5.8
1	0625	78	28.	.2	6.9	*	1	1445	178	0.	.0	5.8	*	1	2305	278	0.	.0	5.8
1	0630	79	26.	.2	6.9	*	1	1450	179	0.	.0	5.8	*	1	2310	279	0.	.0	5.8
1	0635	80	24.	.2	6.8	*	1	1455	180	0.	.0	5.8	*	1	2315	280	0.	.0	5.8
1	0640	81	22.	.2	6.8	*	1	1500	181	0.	.0	5.8	*	1	2320	281	0.	.0	5.8
1	0645	82	20.	.2	6.8	*	1	1505	182	0.	.0	5.8	*	1	2325	282	0.	.0	5.8
1	0650	83	19.	.2	6.7	*	1	1510	183	0.	.0	5.8	*	1	2330	283	0.	.0	5.8
1	0655	84	18.	.2	6.7	*	1	1515	184	0.	.0	5.8	*	1	2335	284	0.	.0	5.8
1	0700	85	16.	.2	6.6	*	1	1520	185	0.	.0	5.8	*	1	2340	285	0.	.0	5.8
1	0705	86	15.	.1	6.6	*	1	1525	186	0.	.0	5.8	*	1	2345	286	0.	.0	5.8
1	0710	87	14.	.1	6.6	*	1	1530	187	0.	.0	5.8	*	1	2350	287	0.	.0	5.8
1	0715	88	13.	.1	6.5	*	1	1535	188	0.	.0	5.8	*	1	2355	288	0.	.0	5.8
1	0720	89	12.	.1	6.5	*	1	1540	189	0.	.0	5.8	*	2	0000	289	0.	.0	5.8
1	0725	90	11.	.1	6.5	*	1	1545	190	0.	.0	5.8	*	2	0005	290	0.	.0	5.8
1	0730	91	10.	.1	6.4	*	1	1550	191	0.	.0	5.8	*	2	0010	291	0.	.0	5.8
1	0735	92	9.	.1	6.4	*	1	1555	192	0.	.0	5.8	*	2	0015	292	0.	.0	5.8
1	0740	93	8.	.1	6.4	*	1	1600	193	0.	.0	5.8	*	2	0020	293	0.	.0	5.8
1	0745	94	8.	.1	6.4	*	1	1605	194	0.	.0	5.8	*	2	0025	294	0.	.0	5.8
1	0750	95	7.	.1	6.4	*	1	1610	195	0.	.0	5.8	*	2	0030	295	0.	.0	5.8
1	0755	96	6.	.1	6.3	*	1	1615	196	0.	.0	5.8	*	2	0035	296	0.	.0	5.8
1	0800	97	6.	.1	6.3	*	1	1620	197	0.	.0	5.8	*	2	0040	297	0.	.0	5.8
1	0805	98	6.	.1	6.3	*	1	1625	198	0.	.0	5.8	*	2	0045	298	0.	.0	5.8
1	0810	99	6.	.1	6.3	*	1	1630	199	0.	.0	5.8	*	2	0050	299	0.	.0	5.8
1	0815	100	5.	.1	6.2	*	1	1635	200	0.	.0	5.8	*	2	0055	300	0.	.0	5.8
						*							*						

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)					
		(CFS)				
96.	4.83		28.	7.	7.	7.
		(INCHES)	.578	.588	.588	.588
		(AC-FT)	14.	14.	14.	14.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
(AC-FT)	(HR)				
1.	4.75	0.	0.	0.	0.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
(FEET)	(HR)				
7.94	4.83	6.74	6.08	6.07	6.07

CUMULATIVE AREA = .45 SQ MI

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*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

          **************
          *            *
64 KK     *   DEVELO   *     PE RAINFALL FOR G3
          *            *
          **************
                         6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
                         THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
                        L =  .30  Kb = .072  Adj. Slope =   60.9

74 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          2  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL         0.  HYDROGRAPH PLOT SCALE

             SUBBASIN RUNOFF DATA

68 BA          SUBBASIN CHARACTERISTICS
                     TAREA        .01  SUBBASIN AREA

               PRECIPITATION DATA

69 PB                STORM       1.99  BASIN TOTAL PRECIPITATION

11 PI            INCREMENTAL PRECIPITATION PATTERN
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00       .00       .01       .01       .01       .01       .01       .01       .03
                     .03       .03       .05       .05       .05       .15       .15       .15       .03       .03
                     .03       .01       .01       .01       .01       .01       .01       .00       .00       .00
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00

70 LG          GREEN AND AMPT LOSS RATE
                     STRTL        .43  STARTING LOSS
                       DTH        .25  MOISTURE DEFICIT
                      PSIF       3.50  WETTING FRONT SUCTION
                     XKSAT        .51  HYDRAULIC CONDUCTIVITY
                     RTIMP      30.00  PERCENT IMPERVIOUS AREA

71 UC          CLARK UNITGRAPH
                        TC        .30  TIME OF CONCENTRATION
                         R        .50  STORAGE COEFFICIENT

72 UA          ACCUMULATED-AREA VS. TIME,  11 ORDINATES
                       .0       5.0      16.0      30.0      65.0      77.0      84.0      90.0      94.0      97.0
                    100.0

                                                   ***

                                          UNIT HYDROGRAPH PARAMETERS
                                     CLARK   TC=   .30 HR,       R=   .50 HR
                                    SNYDER   TP=   .24 HR,      CP=   .36

                                          UNIT HYDROGRAPH
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34 END-OF-PERIOD ORDINATES

2.	6.	9.	9.	8.	7.	6.	5.	4.	3.
3.	2.	2.	2.	1.	1.	1.	1.	1.	1.
1.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.						

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HYDROGRAPH AT STATION DEVELO

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1		0000	1	.00	.00	.00	0.	*	1		1230	151	.00	.00	.00	0.
1		0005	2	.01	.00	.00	0.	*	1		1235	152	.00	.00	.00	0.
1		0010	3	.01	.00	.00	0.	*	1		1240	153	.00	.00	.00	0.
1		0015	4	.01	.00	.00	0.	*	1		1245	154	.00	.00	.00	0.
1		0020	5	.01	.00	.00	0.	*	1		1250	155	.00	.00	.00	0.
1		0025	6	.01	.00	.00	0.	*	1		1255	156	.00	.00	.00	0.
1		0030	7	.01	.00	.00	0.	*	1		1300	157	.00	.00	.00	0.
1		0035	8	.01	.00	.00	0.	*	1		1305	158	.00	.00	.00	0.
1		0040	9	.01	.00	.00	0.	*	1		1310	159	.00	.00	.00	0.
1		0045	10	.01	.00	.00	0.	*	1		1315	160	.00	.00	.00	0.
1		0050	11	.01	.00	.00	0.	*	1		1320	161	.00	.00	.00	0.
1		0055	12	.01	.00	.00	0.	*	1		1325	162	.00	.00	.00	0.
1		0100	13	.01	.00	.00	0.	*	1		1330	163	.00	.00	.00	0.
1		0105	14	.01	.00	.00	0.	*	1		1335	164	.00	.00	.00	0.
1		0110	15	.01	.00	.00	0.	*	1		1340	165	.00	.00	.00	0.
1		0115	16	.01	.00	.00	0.	*	1		1345	166	.00	.00	.00	0.
1		0120	17	.01	.00	.00	0.	*	1		1350	167	.00	.00	.00	0.
1		0125	18	.01	.00	.00	0.	*	1		1355	168	.00	.00	.00	0.
1		0130	19	.01	.00	.00	0.	*	1		1400	169	.00	.00	.00	0.
1		0135	20	.01	.00	.00	0.	*	1		1405	170	.00	.00	.00	0.
1		0140	21	.01	.00	.00	0.	*	1		1410	171	.00	.00	.00	0.
1		0145	22	.01	.00	.00	0.	*	1		1415	172	.00	.00	.00	0.
1		0150	23	.01	.00	.00	0.	*	1		1420	173	.00	.00	.00	0.
1		0155	24	.01	.00	.00	0.	*	1		1425	174	.00	.00	.00	0.
1		0200	25	.01	.00	.00	0.	*	1		1430	175	.00	.00	.00	0.
1		0205	26	.01	.00	.00	0.	*	1		1435	176	.00	.00	.00	0.
1		0210	27	.01	.00	.00	0.	*	1		1440	177	.00	.00	.00	0.
1		0215	28	.01	.00	.00	0.	*	1		1445	178	.00	.00	.00	0.
1		0220	29	.01	.01	.00	0.	*	1		1450	179	.00	.00	.00	0.
1		0225	30	.01	.01	.00	0.	*	1		1455	180	.00	.00	.00	0.
1		0230	31	.01	.01	.00	0.	*	1		1500	181	.00	.00	.00	0.
1		0235	32	.01	.01	.00	0.	*	1		1505	182	.00	.00	.00	0.
1		0240	33	.01	.01	.00	0.	*	1		1510	183	.00	.00	.00	0.
1		0245	34	.01	.01	.00	0.	*	1		1515	184	.00	.00	.00	0.
1		0250	35	.01	.01	.00	0.	*	1		1520	185	.00	.00	.00	0.
1		0255	36	.01	.01	.00	0.	*	1		1525	186	.00	.00	.00	0.
1		0300	37	.01	.01	.00	0.	*	1		1530	187	.00	.00	.00	0.
1		0305	38	.01	.01	.00	0.	*	1		1535	188	.00	.00	.00	0.
1		0310	39	.01	.01	.00	0.	*	1		1540	189	.00	.00	.00	0.
1		0315	40	.01	.01	.00	0.	*	1		1545	190	.00	.00	.00	0.
1		0320	41	.05	.04	.02	0.	*	1		1550	191	.00	.00	.00	0.
1		0325	42	.05	.04	.02	0.	*	1		1555	192	.00	.00	.00	0.
1		0330	43	.05	.04	.02	0.	*	1		1600	193	.00	.00	.00	0.
1		0335	44	.11	.07	.03	1.	*	1		1605	194	.00	.00	.00	0.

1	0340	45	.11	.07	.03	1.	*	1	1610	195	.00	.00	.00	0.
1	0345	46	.11	.07	.03	1.	*	1	1615	196	.00	.00	.00	0.
1	0350	47	.30	.10	.20	2.	*	1	1620	197	.00	.00	.00	0.
1	0355	48	.30	.08	.22	3.	*	1	1625	198	.00	.00	.00	0.
1	0400	49	.30	.07	.23	5.	*	1	1630	199	.00	.00	.00	0.
1	0405	50	.05	.04	.02	6.	*	1	1635	200	.00	.00	.00	0.
1	0410	51	.05	.04	.02	7.	*	1	1640	201	.00	.00	.00	0.
1	0415	52	.05	.04	.02	6.	*	1	1645	202	.00	.00	.00	0.
1	0420	53	.01	.01	.00	5.	*	1	1650	203	.00	.00	.00	0.
1	0425	54	.01	.01	.00	5.	*	1	1655	204	.00	.00	.00	0.
1	0430	55	.01	.01	.00	4.	*	1	1700	205	.00	.00	.00	0.
1	0435	56	.01	.01	.00	3.	*	1	1705	206	.00	.00	.00	0.
1	0440	57	.01	.01	.00	3.	*	1	1710	207	.00	.00	.00	0.
1	0445	58	.01	.01	.00	3.	*	1	1715	208	.00	.00	.00	0.
1	0450	59	.01	.01	.00	2.	*	1	1720	209	.00	.00	.00	0.
1	0455	60	.01	.01	.00	2.	*	1	1725	210	.00	.00	.00	0.
1	0500	61	.01	.01	.00	2.	*	1	1730	211	.00	.00	.00	0.
1	0505	62	.01	.01	.00	1.	*	1	1735	212	.00	.00	.00	0.
1	0510	63	.01	.01	.00	1.	*	1	1740	213	.00	.00	.00	0.
1	0515	64	.01	.01	.00	1.	*	1	1745	214	.00	.00	.00	0.
1	0520	65	.01	.00	.00	1.	*	1	1750	215	.00	.00	.00	0.
1	0525	66	.01	.00	.00	1.	*	1	1755	216	.00	.00	.00	0.
1	0530	67	.01	.00	.00	1.	*	1	1800	217	.00	.00	.00	0.
1	0535	68	.01	.00	.00	1.	*	1	1805	218	.00	.00	.00	0.
1	0540	69	.01	.00	.00	1.	*	1	1810	219	.00	.00	.00	0.
1	0545	70	.01	.00	.00	0.	*	1	1815	220	.00	.00	.00	0.
1	0550	71	.01	.00	.00	0.	*	1	1820	221	.00	.00	.00	0.
1	0555	72	.01	.00	.00	0.	*	1	1825	222	.00	.00	.00	0.
1	0600	73	.01	.00	.00	0.	*	1	1830	223	.00	.00	.00	0.
1	0605	74	.00	.00	.00	0.	*	1	1835	224	.00	.00	.00	0.
1	0610	75	.00	.00	.00	0.	*	1	1840	225	.00	.00	.00	0.
1	0615	76	.00	.00	.00	0.	*	1	1845	226	.00	.00	.00	0.
1	0620	77	.00	.00	.00	0.	*	1	1850	227	.00	.00	.00	0.
1	0625	78	.00	.00	.00	0.	*	1	1855	228	.00	.00	.00	0.
1	0630	79	.00	.00	.00	0.	*	1	1900	229	.00	.00	.00	0.
1	0635	80	.00	.00	.00	0.	*	1	1905	230	.00	.00	.00	0.
1	0640	81	.00	.00	.00	0.	*	1	1910	231	.00	.00	.00	0.
1	0645	82	.00	.00	.00	0.	*	1	1915	232	.00	.00	.00	0.
1	0650	83	.00	.00	.00	0.	*	1	1920	233	.00	.00	.00	0.
1	0655	84	.00	.00	.00	0.	*	1	1925	234	.00	.00	.00	0.
1	0700	85	.00	.00	.00	0.	*	1	1930	235	.00	.00	.00	0.
1	0705	86	.00	.00	.00	0.	*	1	1935	236	.00	.00	.00	0.
1	0710	87	.00	.00	.00	0.	*	1	1940	237	.00	.00	.00	0.
1	0715	88	.00	.00	.00	0.	*	1	1945	238	.00	.00	.00	0.
1	0720	89	.00	.00	.00	0.	*	1	1950	239	.00	.00	.00	0.
1	0725	90	.00	.00	.00	0.	*	1	1955	240	.00	.00	.00	0.
1	0730	91	.00	.00	.00	0.	*	1	2000	241	.00	.00	.00	0.
1	0735	92	.00	.00	.00	0.	*	1	2005	242	.00	.00	.00	0.
1	0740	93	.00	.00	.00	0.	*	1	2010	243	.00	.00	.00	0.
1	0745	94	.00	.00	.00	0.	*	1	2015	244	.00	.00	.00	0.
1	0750	95	.00	.00	.00	0.	*	1	2020	245	.00	.00	.00	0.
1	0755	96	.00	.00	.00	0.	*	1	2025	246	.00	.00	.00	0.
1	0800	97	.00	.00	.00	0.	*	1	2030	247	.00	.00	.00	0.
1	0805	98	.00	.00	.00	0.	*	1	2035	248	.00	.00	.00	0.
1	0810	99	.00	.00	.00	0.	*	1	2040	249	.00	.00	.00	0.
1	0815	100	.00	.00	.00	0.	*	1	2045	250	.00	.00	.00	0.
1	0820	101	.00	.00	.00	0.	*	1	2050	251	.00	.00	.00	0.
1	0825	102	.00	.00	.00	0.	*	1	2055	252	.00	.00	.00	0.

1	0830	103	.00	.00	.00	0.	*	1	2100	253	.00	.00	.00	0.
1	0835	104	.00	.00	.00	0.	*	1	2105	254	.00	.00	.00	0.
1	0840	105	.00	.00	.00	0.	*	1	2110	255	.00	.00	.00	0.
1	0845	106	.00	.00	.00	0.	*	1	2115	256	.00	.00	.00	0.
1	0850	107	.00	.00	.00	0.	*	1	2120	257	.00	.00	.00	0.
1	0855	108	.00	.00	.00	0.	*	1	2125	258	.00	.00	.00	0.
1	0900	109	.00	.00	.00	0.	*	1	2130	259	.00	.00	.00	0.
1	0905	110	.00	.00	.00	0.	*	1	2135	260	.00	.00	.00	0.
1	0910	111	.00	.00	.00	0.	*	1	2140	261	.00	.00	.00	0.
1	0915	112	.00	.00	.00	0.	*	1	2145	262	.00	.00	.00	0.
1	0920	113	.00	.00	.00	0.	*	1	2150	263	.00	.00	.00	0.
1	0925	114	.00	.00	.00	0.	*	1	2155	264	.00	.00	.00	0.
1	0930	115	.00	.00	.00	0.	*	1	2200	265	.00	.00	.00	0.
1	0935	116	.00	.00	.00	0.	*	1	2205	266	.00	.00	.00	0.
1	0940	117	.00	.00	.00	0.	*	1	2210	267	.00	.00	.00	0.
1	0945	118	.00	.00	.00	0.	*	1	2215	268	.00	.00	.00	0.
1	0950	119	.00	.00	.00	0.	*	1	2220	269	.00	.00	.00	0.
1	0955	120	.00	.00	.00	0.	*	1	2225	270	.00	.00	.00	0.
1	1000	121	.00	.00	.00	0.	*	1	2230	271	.00	.00	.00	0.
1	1005	122	.00	.00	.00	0.	*	1	2235	272	.00	.00	.00	0.
1	1010	123	.00	.00	.00	0.	*	1	2240	273	.00	.00	.00	0.
1	1015	124	.00	.00	.00	0.	*	1	2245	274	.00	.00	.00	0.
1	1020	125	.00	.00	.00	0.	*	1	2250	275	.00	.00	.00	0.
1	1025	126	.00	.00	.00	0.	*	1	2255	276	.00	.00	.00	0.
1	1030	127	.00	.00	.00	0.	*	1	2300	277	.00	.00	.00	0.
1	1035	128	.00	.00	.00	0.	*	1	2305	278	.00	.00	.00	0.
1	1040	129	.00	.00	.00	0.	*	1	2310	279	.00	.00	.00	0.
1	1045	130	.00	.00	.00	0.	*	1	2315	280	.00	.00	.00	0.
1	1050	131	.00	.00	.00	0.	*	1	2320	281	.00	.00	.00	0.
1	1055	132	.00	.00	.00	0.	*	1	2325	282	.00	.00	.00	0.
1	1100	133	.00	.00	.00	0.	*	1	2330	283	.00	.00	.00	0.
1	1105	134	.00	.00	.00	0.	*	1	2335	284	.00	.00	.00	0.
1	1110	135	.00	.00	.00	0.	*	1	2340	285	.00	.00	.00	0.
1	1115	136	.00	.00	.00	0.	*	1	2345	286	.00	.00	.00	0.
1	1120	137	.00	.00	.00	0.	*	1	2350	287	.00	.00	.00	0.
1	1125	138	.00	.00	.00	0.	*	1	2355	288	.00	.00	.00	0.
1	1130	139	.00	.00	.00	0.	*	2	0000	289	.00	.00	.00	0.
1	1135	140	.00	.00	.00	0.	*	2	0005	290	.00	.00	.00	0.
1	1140	141	.00	.00	.00	0.	*	2	0010	291	.00	.00	.00	0.
1	1145	142	.00	.00	.00	0.	*	2	0015	292	.00	.00	.00	0.
1	1150	143	.00	.00	.00	0.	*	2	0020	293	.00	.00	.00	0.
1	1155	144	.00	.00	.00	0.	*	2	0025	294	.00	.00	.00	0.
1	1200	145	.00	.00	.00	0.	*	2	0030	295	.00	.00	.00	0.
1	1205	146	.00	.00	.00	0.	*	2	0035	296	.00	.00	.00	0.
1	1210	147	.00	.00	.00	0.	*	2	0040	297	.00	.00	.00	0.
1	1215	148	.00	.00	.00	0.	*	2	0045	298	.00	.00	.00	0.
1	1220	149	.00	.00	.00	0.	*	2	0050	299	.00	.00	.00	0.
1	1225	150	.00	.00	.00	0.	*	2	0055	300	.00	.00	.00	0.
							*							

****

TOTAL RAINFALL = 1.99, TOTAL LOSS = 1.01, TOTAL EXCESS = .98

PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW (CFS) 6-HR	24-HR	72-HR	24.92-HR
7.	4.17	1.	0.	0.	0.

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                    (INCHES)      .967        .975        .975        .975
                     (AC-FT)       1.          1.          1.          1.

                    CUMULATIVE AREA =     .01 SQ MI


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


          **************
          *            *
 75 KK    *    Node8   *
          *            *
          **************
                    Route area through subdivision to remove retention storage

 80 KO          OUTPUT CONTROL VARIABLES
                      IPRNT           2  PRINT CONTROL
                      IPLOT           0  PLOT CONTROL
                      QSCAL          0.  HYDROGRAPH PLOT SCALE

             HYDROGRAPH ROUTING DATA

 77 RS          STORAGE ROUTING
                      NSTPS           1  NUMBER OF SUBREACHES
                       ITYP        STOR  TYPE OF INITIAL CONDITION
                     RSVRIC         .00  INITIAL CONDITION
                          X         .00 WORKING R AND D COEFFICIENT

 78 SV            STORAGE          .0        .6        .6        .6        .6        .6        .6

 79 SQ          DISCHARGE          0.        0.       10.       20.       30.       40.       50.

                                                                  ***

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN        0. TO       50.
                THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS,
                THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

*************************************************************************************************************************************

                                                  HYDROGRAPH AT STATION   Node8

*************************************************************************************************************************************
                                          *                                                  *
  DA MON HRMN  ORD   OUTFLOW    STORAGE   *  DA MON HRMN  ORD   OUTFLOW    STORAGE   *  DA MON HRMN  ORD   OUTFLOW    STORAGE
                                          *                                                  *
   1    0000    1       0.        .00    *   1    0820  101       0.        .52    *   1    1640  201       0.        .52
   1    0005    2       0.        .00    *   1    0825  102       0.        .52    *   1    1645  202       0.        .52
   1    0010    3       0.        .00    *   1    0830  103       0.        .52    *   1    1650  203       0.        .52
   1    0015    4       0.        .00    *   1    0835  104       0.        .52    *   1    1655  204       0.        .52
   1    0020    5       0.        .00    *   1    0840  105       0.        .52    *   1    1700  205       0.        .52
   1    0025    6       0.        .00    *   1    0845  106       0.        .52    *   1    1705  206       0.        .52
   1    0030    7       0.        .00    *   1    0850  107       0.        .52    *   1    1710  207       0.        .52
   1    0035    8       0.        .00    *   1    0855  108       0.        .52    *   1    1715  208       0.        .52
   1    0040    9       0.        .00    *   1    0900  109       0.        .52    *   1    1720  209       0.        .52
```

1	0045	10	0.	.00	*	1	0905	110	0.	.52	*	1	1725	210	0.	.52
1	0050	11	0.	.00	*	1	0910	111	0.	.52	*	1	1730	211	0.	.52
1	0055	12	0.	.00	*	1	0915	112	0.	.52	*	1	1735	212	0.	.52
1	0100	13	0.	.00	*	1	0920	113	0.	.52	*	1	1740	213	0.	.52
1	0105	14	0.	.01	*	1	0925	114	0.	.52	*	1	1745	214	0.	.52
1	0110	15	0.	.01	*	1	0930	115	0.	.52	*	1	1750	215	0.	.52
1	0115	16	0.	.01	*	1	0935	116	0.	.52	*	1	1755	216	0.	.52
1	0120	17	0.	.01	*	1	0940	117	0.	.52	*	1	1800	217	0.	.52
1	0125	18	0.	.01	*	1	0945	118	0.	.52	*	1	1805	218	0.	.52
1	0130	19	0.	.01	*	1	0950	119	0.	.52	*	1	1810	219	0.	.52
1	0135	20	0.	.01	*	1	0955	120	0.	.52	*	1	1815	220	0.	.52
1	0140	21	0.	.01	*	1	1000	121	0.	.52	*	1	1820	221	0.	.52
1	0145	22	0.	.01	*	1	1005	122	0.	.52	*	1	1825	222	0.	.52
1	0150	23	0.	.01	*	1	1010	123	0.	.52	*	1	1830	223	0.	.52
1	0155	24	0.	.01	*	1	1015	124	0.	.52	*	1	1835	224	0.	.52
1	0200	25	0.	.01	*	1	1020	125	0.	.52	*	1	1840	225	0.	.52
1	0205	26	0.	.02	*	1	1025	126	0.	.52	*	1	1845	226	0.	.52
1	0210	27	0.	.02	*	1	1030	127	0.	.52	*	1	1850	227	0.	.52
1	0215	28	0.	.02	*	1	1035	128	0.	.52	*	1	1855	228	0.	.52
1	0220	29	0.	.02	*	1	1040	129	0.	.52	*	1	1900	229	0.	.52
1	0225	30	0.	.02	*	1	1045	130	0.	.52	*	1	1905	230	0.	.52
1	0230	31	0.	.02	*	1	1050	131	0.	.52	*	1	1910	231	0.	.52
1	0235	32	0.	.02	*	1	1055	132	0.	.52	*	1	1915	232	0.	.52
1	0240	33	0.	.02	*	1	1100	133	0.	.52	*	1	1920	233	0.	.52
1	0245	34	0.	.02	*	1	1105	134	0.	.52	*	1	1925	234	0.	.52
1	0250	35	0.	.02	*	1	1110	135	0.	.52	*	1	1930	235	0.	.52
1	0255	36	0.	.03	*	1	1115	136	0.	.52	*	1	1935	236	0.	.52
1	0300	37	0.	.03	*	1	1120	137	0.	.52	*	1	1940	237	0.	.52
1	0305	38	0.	.03	*	1	1125	138	0.	.52	*	1	1945	238	0.	.52
1	0310	39	0.	.03	*	1	1130	139	0.	.52	*	1	1950	239	0.	.52
1	0315	40	0.	.03	*	1	1135	140	0.	.52	*	1	1955	240	0.	.52
1	0320	41	0.	.03	*	1	1140	141	0.	.52	*	1	2000	241	0.	.52
1	0325	42	0.	.04	*	1	1145	142	0.	.52	*	1	2005	242	0.	.52
1	0330	43	0.	.04	*	1	1150	143	0.	.52	*	1	2010	243	0.	.52
1	0335	44	0.	.04	*	1	1155	144	0.	.52	*	1	2015	244	0.	.52
1	0340	45	0.	.05	*	1	1200	145	0.	.52	*	1	2020	245	0.	.52
1	0345	46	0.	.05	*	1	1205	146	0.	.52	*	1	2025	246	0.	.52
1	0350	47	0.	.06	*	1	1210	147	0.	.52	*	1	2030	247	0.	.52
1	0355	48	0.	.08	*	1	1215	148	0.	.52	*	1	2035	248	0.	.52
1	0400	49	0.	.10	*	1	1220	149	0.	.52	*	1	2040	249	0.	.52
1	0405	50	0.	.14	*	1	1225	150	0.	.52	*	1	2045	250	0.	.52
1	0410	51	0.	.18	*	1	1230	151	0.	.52	*	1	2050	251	0.	.52
1	0415	52	0.	.23	*	1	1235	152	0.	.52	*	1	2055	252	0.	.52
1	0420	53	0.	.27	*	1	1240	153	0.	.52	*	1	2100	253	0.	.52
1	0425	54	0.	.30	*	1	1245	154	0.	.52	*	1	2105	254	0.	.52
1	0430	55	0.	.33	*	1	1250	155	0.	.52	*	1	2110	255	0.	.52
1	0435	56	0.	.36	*	1	1255	156	0.	.52	*	1	2115	256	0.	.52
1	0440	57	0.	.38	*	1	1300	157	0.	.52	*	1	2120	257	0.	.52
1	0445	58	0.	.40	*	1	1305	158	0.	.52	*	1	2125	258	0.	.52
1	0450	59	0.	.42	*	1	1310	159	0.	.52	*	1	2130	259	0.	.52
1	0455	60	0.	.43	*	1	1315	160	0.	.52	*	1	2135	260	0.	.52
1	0500	61	0.	.44	*	1	1320	161	0.	.52	*	1	2140	261	0.	.52
1	0505	62	0.	.45	*	1	1325	162	0.	.52	*	1	2145	262	0.	.52
1	0510	63	0.	.46	*	1	1330	163	0.	.52	*	1	2150	263	0.	.52
1	0515	64	0.	.47	*	1	1335	164	0.	.52	*	1	2155	264	0.	.52
1	0520	65	0.	.48	*	1	1340	165	0.	.52	*	1	2200	265	0.	.52
1	0525	66	0.	.48	*	1	1345	166	0.	.52	*	1	2205	266	0.	.52
1	0530	67	0.	.49	*	1	1350	167	0.	.52	*	1	2210	267	0.	.52

1	0535	68	0.	.49	*	1	1355	168	0.	.52	*	1	2215	268	0.	.52
1	0540	69	0.	.50	*	1	1400	169	0.	.52	*	1	2220	269	0.	.52
1	0545	70	0.	.50	*	1	1405	170	0.	.52	*	1	2225	270	0.	.52
1	0550	71	0.	.50	*	1	1410	171	0.	.52	*	1	2230	271	0.	.52
1	0555	72	0.	.50	*	1	1415	172	0.	.52	*	1	2235	272	0.	.52
1	0600	73	0.	.51	*	1	1420	173	0.	.52	*	1	2240	273	0.	.52
1	0605	74	0.	.51	*	1	1425	174	0.	.52	*	1	2245	274	0.	.52
1	0610	75	0.	.51	*	1	1430	175	0.	.52	*	1	2250	275	0.	.52
1	0615	76	0.	.51	*	1	1435	176	0.	.52	*	1	2255	276	0.	.52
1	0620	77	0.	.51	*	1	1440	177	0.	.52	*	1	2300	277	0.	.52
1	0625	78	0.	.52	*	1	1445	178	0.	.52	*	1	2305	278	0.	.52
1	0630	79	0.	.52	*	1	1450	179	0.	.52	*	1	2310	279	0.	.52
1	0635	80	0.	.52	*	1	1455	180	0.	.52	*	1	2315	280	0.	.52
1	0640	81	0.	.52	*	1	1500	181	0.	.52	*	1	2320	281	0.	.52
1	0645	82	0.	.52	*	1	1505	182	0.	.52	*	1	2325	282	0.	.52
1	0650	83	0.	.52	*	1	1510	183	0.	.52	*	1	2330	283	0.	.52
1	0655	84	0.	.52	*	1	1515	184	0.	.52	*	1	2335	284	0.	.52
1	0700	85	0.	.52	*	1	1520	185	0.	.52	*	1	2340	285	0.	.52
1	0705	86	0.	.52	*	1	1525	186	0.	.52	*	1	2345	286	0.	.52
1	0710	87	0.	.52	*	1	1530	187	0.	.52	*	1	2350	287	0.	.52
1	0715	88	0.	.52	*	1	1535	188	0.	.52	*	1	2355	288	0.	.52
1	0720	89	0.	.52	*	1	1540	189	0.	.52	*	2	0000	289	0.	.52
1	0725	90	0.	.52	*	1	1545	190	0.	.52	*	2	0005	290	0.	.52
1	0730	91	0.	.52	*	1	1550	191	0.	.52	*	2	0010	291	0.	.52
1	0735	92	0.	.52	*	1	1555	192	0.	.52	*	2	0015	292	0.	.52
1	0740	93	0.	.52	*	1	1600	193	0.	.52	*	2	0020	293	0.	.52
1	0745	94	0.	.52	*	1	1605	194	0.	.52	*	2	0025	294	0.	.52
1	0750	95	0.	.52	*	1	1610	195	0.	.52	*	2	0030	295	0.	.52
1	0755	96	0.	.52	*	1	1615	196	0.	.52	*	2	0035	296	0.	.52
1	0800	97	0.	.52	*	1	1620	197	0.	.52	*	2	0040	297	0.	.52
1	0805	98	0.	.52	*	1	1625	198	0.	.52	*	2	0045	298	0.	.52
1	0810	99	0.	.52	*	1	1630	199	0.	.52	*	2	0050	299	0.	.52
1	0815	100	0.	.52	*	1	1635	200	0.	.52	*	2	0055	300	0.	.52
					*						*					

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
0.	.08		0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
1.	7.83	1.	0.	0.	0.

CUMULATIVE AREA = .01 SQ MI

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          *           *
81 KK     *   Node13  *
          *           *
          **************
                    confluence g1-g2 with g3

83 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          2  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL         0.  HYDROGRAPH PLOT SCALE

85 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          2  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL         0.  HYDROGRAPH PLOT SCALE

84 HC          HYDROGRAPH COMBINATION
                     ICOMP          2  NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION Node13
SUM OF 2 HYDROGRAPHS

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	33.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	30.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	28.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	26.	1		1245	154	0.	1		1900	229	0.
1		0020	5	0.	1		0635	80	24.	1		1250	155	0.	1		1905	230	0.
1		0025	6	0.	1		0640	81	22.	1		1255	156	0.	1		1910	231	0.
1		0030	7	0.	1		0645	82	20.	1		1300	157	0.	1		1915	232	0.
1		0035	8	0.	1		0650	83	19.	1		1305	158	0.	1		1920	233	0.
1		0040	9	0.	1		0655	84	18.	1		1310	159	0.	1		1925	234	0.
1		0045	10	0.	1		0700	85	16.	1		1315	160	0.	1		1930	235	0.
1		0050	11	0.	1		0705	86	15.	1		1320	161	0.	1		1935	236	0.
1		0055	12	0.	1		0710	87	14.	1		1325	162	0.	1		1940	237	0.
1		0100	13	0.	1		0715	88	13.	1		1330	163	0.	1		1945	238	0.
1		0105	14	0.	1		0720	89	12.	1		1335	164	0.	1		1950	239	0.
1		0110	15	0.	1		0725	90	11.	1		1340	165	0.	1		1955	240	0.
1		0115	16	0.	1		0730	91	10.	1		1345	166	0.	1		2000	241	0.
1		0120	17	0.	1		0735	92	9.	1		1350	167	0.	1		2005	242	0.
1		0125	18	0.	1		0740	93	8.	1		1355	168	0.	1		2010	243	0.
1		0130	19	1.	1		0745	94	8.	1		1400	169	0.	1		2015	244	0.
1		0135	20	1.	1		0750	95	7.	1		1405	170	0.	1		2020	245	0.
1		0140	21	1.	1		0755	96	6.	1		1410	171	0.	1		2025	246	0.
1		0145	22	1.	1		0800	97	6.	1		1415	172	0.	1		2030	247	0.
1		0150	23	1.	1		0805	98	6.	1		1420	173	0.	1		2035	248	0.
1		0155	24	1.	1		0810	99	6.	1		1425	174	0.	1		2040	249	0.
1		0200	25	1.	1		0815	100	5.	1		1430	175	0.	1		2045	250	0.
1		0205	26	1.	1		0820	101	5.	1		1435	176	0.	1		2050	251	0.
1		0210	27	1.	1		0825	102	5.	1		1440	177	0.	1		2055	252	0.
1		0215	28	1.	1		0830	103	4.	1		1445	178	0.	1		2100	253	0.

1	0220	29	1.	*	1	0835	104	4.	*	1	1450	179	0.	*	1	2105	254	0.
1	0225	30	1.	*	1	0840	105	4.	*	1	1455	180	0.	*	1	2110	255	0.
1	0230	31	1.	*	1	0845	106	3.	*	1	1500	181	0.	*	1	2115	256	0.
1	0235	32	1.	*	1	0850	107	3.	*	1	1505	182	0.	*	1	2120	257	0.
1	0240	33	1.	*	1	0855	108	3.	*	1	1510	183	0.	*	1	2125	258	0.
1	0245	34	1.	*	1	0900	109	3.	*	1	1515	184	0.	*	1	2130	259	0.
1	0250	35	1.	*	1	0905	110	2.	*	1	1520	185	0.	*	1	2135	260	0.
1	0255	36	1.	*	1	0910	111	2.	*	1	1525	186	0.	*	1	2140	261	0.
1	0300	37	1.	*	1	0915	112	2.	*	1	1530	187	0.	*	1	2145	262	0.
1	0305	38	1.	*	1	0920	113	2.	*	1	1535	188	0.	*	1	2150	263	0.
1	0310	39	1.	*	1	0925	114	2.	*	1	1540	189	0.	*	1	2155	264	0.
1	0315	40	1.	*	1	0930	115	2.	*	1	1545	190	0.	*	1	2200	265	0.
1	0320	41	1.	*	1	0935	116	1.	*	1	1550	191	0.	*	1	2205	266	0.
1	0325	42	1.	*	1	0940	117	1.	*	1	1555	192	0.	*	1	2210	267	0.
1	0330	43	1.	*	1	0945	118	1.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	2.	*	1	0950	119	1.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	2.	*	1	0955	120	1.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	2.	*	1	1000	121	1.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	2.	*	1	1005	122	0.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	3.	*	1	1010	123	0.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	3.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	6.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	12.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	21.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	34.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	50.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	68.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	83.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	92.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	96.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	96.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	95.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	92.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	89.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	85.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	81.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	77.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	72.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	67.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	62.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	57.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	53.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	49.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	45.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	42.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	39.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	36.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)					
		(CFS)				
96.	4.83		28.	7.	7.	7.
		(INCHES)	.566	.575	.575	.575
		(AC-FT)	14.	14.	14.	14.

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                    CUMULATIVE AREA =     .46 SQ MI


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


          **************
          *            *
 86 KK    *    Node10  *
          *            *
          **************
                     Route water from  middle of subdivision to old mcdowell

 92 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

             HYDROGRAPH ROUTING DATA

 88 RS          STORAGE ROUTING
                      NSTPS          1  NUMBER OF SUBREACHES
                       ITYP       STOR  TYPE OF INITIAL CONDITION
                     RSVRIC        .00  INITIAL CONDITION
                          X        .00 WORKING R AND D COEFFICIENT

 89 RC          NORMAL DEPTH CHANNEL
                        ANL       .035  LEFT OVERBANK N-VALUE
                       ANCH       .035  MAIN CHANNEL N-VALUE
                        ANR       .035  RIGHT OVERBANK N-VALUE  .
                      RLNTH       650.  REACH LENGTH
                        SEL      .0022  ENERGY SLOPE
                      ELMAX       15.0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                     CROSS-SECTION DATA
                          --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
 91 RY        ELEVATION     15.00     11.00     10.00      5.85      5.85     10.00     11.00     15.00
 90 RX        DISTANCE        .00     20.00    120.00    136.60    146.60    162.20    262.20    282.20

                                                   ***

                                     COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

          STORAGE        .00       .09       .20       .34       .50       .69       .91      1.16      1.43      1.78
          OUTFLOW        .00      6.32     21.74     46.35     81.01    126.67    184.32    254.90    339.36    449.06
        ELEVATION       5.85      6.33      6.81      7.29      7.78      8.26      8.74      9.22      9.70     10.18

          STORAGE       2.70      4.27      6.04      7.84      9.68     11.55     13.46     15.40     17.38     19.39
          OUTFLOW     628.29    931.10   1390.33   1963.47   2640.18   3413.96   4280.30   5235.91   6278.27   7405.46
        ELEVATION      10.67     11.15     11.63     12.11     12.59     13.07     13.56     14.04     14.52     15.00


*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN      255. TO     7405.
               THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
               THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)
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HYDROGRAPH AT STATION Node10

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	5.8	1		0820	101	5.	.1	6.3	1		1640	201	0.	.0	5.8
1		0005	2	0.	.0	5.9	1		0825	102	5.	.1	6.2	1		1645	202	0.	.0	5.8
1		0010	3	0.	.0	5.9	1		0830	103	5.	.1	6.2	1		1650	203	0.	.0	5.8
1		0015	4	0.	.0	5.9	1		0835	104	4.	.1	6.2	1		1655	204	0.	.0	5.8
1		0020	5	0.	.0	5.9	1		0840	105	4.	.1	6.2	1		1700	205	0.	.0	5.8
1		0025	6	0.	.0	5.9	1		0845	106	4.	.1	6.1	1		1705	206	0.	.0	5.8
1		0030	7	0.	.0	5.9	1		0850	107	4.	.0	6.1	1		1710	207	0.	.0	5.8
1		0035	8	0.	.0	5.9	1		0855	108	3.	.0	6.1	1		1715	208	0.	.0	5.8
1		0040	9	0.	.0	5.9	1		0900	109	3.	.0	6.1	1		1720	209	0.	.0	5.8
1		0045	10	0.	.0	5.9	1		0905	110	3.	.0	6.1	1		1725	210	0.	.0	5.8
1		0050	11	0.	.0	5.9	1		0910	111	3.	.0	6.0	1		1730	211	0.	.0	5.8
1		0055	12	0.	.0	5.9	1		0915	112	2.	.0	6.0	1		1735	212	0.	.0	5.8
1		0100	13	0.	.0	5.9	1		0920	113	2.	.0	6.0	1		1740	213	0.	.0	5.8
1		0105	14	0.	.0	5.9	1		0925	114	2.	.0	6.0	1		1745	214	0.	.0	5.8
1		0110	15	0.	.0	5.9	1		0930	115	2.	.0	6.0	1		1750	215	0.	.0	5.8
1		0115	16	0.	.0	5.9	1		0935	116	2.	.0	6.0	1		1755	216	0.	.0	5.8
1		0120	17	0.	.0	5.9	1		0940	117	2.	.0	6.0	1		1800	217	0.	.0	5.8
1		0125	18	0.	.0	5.9	1		0945	118	1.	.0	6.0	1		1805	218	0.	.0	5.8
1		0130	19	0.	.0	5.9	1		0950	119	1.	.0	5.9	1		1810	219	0.	.0	5.8
1		0135	20	0.	.0	5.9	1		0955	120	1.	.0	5.9	1		1815	220	0.	.0	5.8
1		0140	21	1.	.0	5.9	1		1000	121	1.	.0	5.9	1		1820	221	0.	.0	5.8
1		0145	22	1.	.0	5.9	1		1005	122	1.	.0	5.9	1		1825	222	0.	.0	5.8
1		0150	23	1.	.0	5.9	1		1010	123	1.	.0	5.9	1		1830	223	0.	.0	5.8
1		0155	24	1.	.0	5.9	1		1015	124	0.	.0	5.9	1		1835	224	0.	.0	5.8
1		0200	25	1.	.0	5.9	1		1020	125	0.	.0	5.9	1		1840	225	0.	.0	5.8
1		0205	26	1.	.0	5.9	1		1025	126	0.	.0	5.9	1		1845	226	0.	.0	5.8
1		0210	27	1.	.0	5.9	1		1030	127	0.	.0	5.9	1		1850	227	0.	.0	5.8
1		0215	28	1.	.0	5.9	1		1035	128	0.	.0	5.9	1		1855	228	0.	.0	5.8
1		0220	29	1.	.0	5.9	1		1040	129	0.	.0	5.9	1		1900	229	0.	.0	5.8
1		0225	30	1.	.0	5.9	1		1045	130	0.	.0	5.9	1		1905	230	0.	.0	5.8
1		0230	31	1.	.0	5.9	1		1050	131	0.	.0	5.9	1		1910	231	0.	.0	5.8
1		0235	32	1.	.0	5.9	1		1055	132	0.	.0	5.9	1		1915	232	0.	.0	5.8
1		0240	33	1.	.0	5.9	1		1100	133	0.	.0	5.9	1		1920	233	0.	.0	5.8
1		0245	34	1.	.0	5.9	1		1105	134	0.	.0	5.9	1		1925	234	0.	.0	5.8
1		0250	35	1.	.0	5.9	1		1110	135	0.	.0	5.9	1		1930	235	0.	.0	5.8
1		0255	36	1.	.0	5.9	1		1115	136	0.	.0	5.9	1		1935	236	0.	.0	5.8
1		0300	37	1.	.0	5.9	1		1120	137	0.	.0	5.9	1		1940	237	0.	.0	5.8
1		0305	38	1.	.0	5.9	1		1125	138	0.	.0	5.9	1		1945	238	0.	.0	5.8
1		0310	39	1.	.0	5.9	1		1130	139	0.	.0	5.9	1		1950	239	0.	.0	5.8
1		0315	40	1.	.0	5.9	1		1135	140	0.	.0	5.9	1		1955	240	0.	.0	5.8
1		0320	41	1.	.0	5.9	1		1140	141	0.	.0	5.9	1		2000	241	0.	.0	5.8
1		0325	42	1.	.0	5.9	1		1145	142	0.	.0	5.9	1		2005	242	0.	.0	5.8
1		0330	43	1.	.0	5.9	1		1150	143	0.	.0	5.9	1		2010	243	0.	.0	5.8
1		0335	44	1.	.0	6.0	1		1155	144	0.	.0	5.9	1		2015	244	0.	.0	5.8
1		0340	45	1.	.0	6.0	1		1200	145	0.	.0	5.9	1		2020	245	0.	.0	5.8
1		0345	46	2.	.0	6.0	1		1205	146	0.	.0	5.9	1		2025	246	0.	.0	5.8
1		0350	47	2.	.0	6.0	1		1210	147	0.	.0	5.9	1		2030	247	0.	.0	5.8
1		0355	48	2.	.0	6.0	1		1215	148	0.	.0	5.9	1		2035	248	0.	.0	5.8
1		0400	49	2.	.0	6.0	1		1220	149	0.	.0	5.9	1		2040	249	0.	.0	5.8
1		0405	50	3.	.0	6.1	1		1225	150	0.	.0	5.9	1		2045	250	0.	.0	5.8

1	0410	51	6.	.1	6.3	*	1	1230	151	0.	.0	5.9	*	1	2050	251	0.	.0	5.8
1	0415	52	12.	.1	6.5	*	1	1235	152	0.	.0	5.9	*	1	2055	252	0.	.0	5.8
1	0420	53	22.	.2	6.8	*	1	1240	153	0.	.0	5.9	*	1	2100	253	0.	.0	5.8
1	0425	54	37.	.3	7.1	*	1	1245	154	0.	.0	5.9	*	1	2105	254	0.	.0	5.8
1	0430	55	55.	.4	7.4	*	1	1250	155	0.	.0	5.9	*	1	2110	255	0.	.0	5.8
1	0435	56	72.	.5	7.7	*	1	1255	156	0.	.0	5.9	*	1	2115	256	0.	.0	5.8
1	0440	57	85.	.5	7.8	*	1	1300	157	0.	.0	5.9	*	1	2120	257	0.	.0	5.8
1	0445	58	93.	.6	7.9	*	1	1305	158	0.	.0	5.9	*	1	2125	258	0.	.0	5.8
1	0450	59	96.	.6	7.9	*	1	1310	159	0.	.0	5.9	*	1	2130	259	0.	.0	5.8
1	0455	60	95.	.6	7.9	*	1	1315	160	0.	.0	5.9	*	1	2135	260	0.	.0	5.8
1	0500	61	93.	.6	7.9	*	1	1320	161	0.	.0	5.9	*	1	2140	261	0.	.0	5.8
1	0505	62	91.	.5	7.9	*	1	1325	162	0.	.0	5.9	*	1	2145	262	0.	.0	5.8
1	0510	63	87.	.5	7.8	*	1	1330	163	0.	.0	5.9	*	1	2150	263	0.	.0	5.8
1	0515	64	84.	.5	7.8	*	1	1335	164	0.	.0	5.8	*	1	2155	264	0.	.0	5.8
1	0520	65	80.	.5	7.8	*	1	1340	165	0.	.0	5.8	*	1	2200	265	0.	.0	5.8
1	0525	66	75.	.5	7.7	*	1	1345	166	0.	.0	5.8	*	1	2205	266	0.	.0	5.8
1	0530	67	71.	.5	7.6	*	1	1350	167	0.	.0	5.8	*	1	2210	267	0.	.0	5.8
1	0535	68	66.	.4	7.6	*	1	1355	168	0.	.0	5.8	*	1	2215	268	0.	.0	5.8
1	0540	69	61.	.4	7.5	*	1	1400	169	0.	.0	5.8	*	1	2220	269	0.	.0	5.8
1	0545	70	56.	.4	7.4	*	1	1405	170	0.	.0	5.8	*	1	2225	270	0.	.0	5.8
1	0550	71	52.	.4	7.4	*	1	1410	171	0.	.0	5.8	*	1	2230	271	0.	.0	5.8
1	0555	72	48.	.3	7.3	*	1	1415	172	0.	.0	5.8	*	1	2235	272	0.	.0	5.8
1	0600	73	45.	.3	7.3	*	1	1420	173	0.	.0	5.8	*	1	2240	273	0.	.0	5.8
1	0605	74	42.	.3	7.2	*	1	1425	174	0.	.0	5.8	*	1	2245	274	0.	.0	5.8
1	0610	75	38.	.3	7.1	*	1	1430	175	0.	.0	5.8	*	1	2250	275	0.	.0	5.8
1	0615	76	35.	.3	7.1	*	1	1435	176	0.	.0	5.8	*	1	2255	276	0.	.0	5.8
1	0620	77	33.	.3	7.0	*	1	1440	177	0.	.0	5.8	*	1	2300	277	0.	.0	5.8
1	0625	78	30.	.2	7.0	*	1	1445	178	0.	.0	5.8	*	1	2305	278	0.	.0	5.8
1	0630	79	28.	.2	6.9	*	1	1450	179	0.	.0	5.8	*	1	2310	279	0.	.0	5.8
1	0635	80	25.	.2	6.9	*	1	1455	180	0.	.0	5.8	*	1	2315	280	0.	.0	5.8
1	0640	81	23.	.2	6.8	*	1	1500	181	0.	.0	5.8	*	1	2320	281	0.	.0	5.8
1	0645	82	22.	.2	6.8	*	1	1505	182	0.	.0	5.8	*	1	2325	282	0.	.0	5.8
1	0650	83	20.	.2	6.8	*	1	1510	183	0.	.0	5.8	*	1	2330	283	0.	.0	5.8
1	0655	84	19.	.2	6.7	*	1	1515	184	0.	.0	5.8	*	1	2335	284	0.	.0	5.8
1	0700	85	18.	.2	6.7	*	1	1520	185	0.	.0	5.8	*	1	2340	285	0.	.0	5.8
1	0705	86	16.	.2	6.6	*	1	1525	186	0.	.0	5.8	*	1	2345	286	0.	.0	5.8
1	0710	87	15.	.1	6.6	*	1	1530	187	0.	.0	5.8	*	1	2350	287	0.	.0	5.8
1	0715	88	14.	.1	6.6	*	1	1535	188	0.	.0	5.8	*	1	2355	288	0.	.0	5.8
1	0720	89	13.	.1	6.5	*	1	1540	189	0.	.0	5.8	*	2	0000	289	0.	.0	5.8
1	0725	90	12.	.1	6.5	*	1	1545	190	0.	.0	5.8	*	2	0005	290	0.	.0	5.8
1	0730	91	11.	.1	6.5	*	1	1550	191	0.	.0	5.8	*	2	0010	291	0.	.0	5.8
1	0735	92	10.	.1	6.4	*	1	1555	192	0.	.0	5.8	*	2	0015	292	0.	.0	5.8
1	0740	93	9.	.1	6.4	*	1	1600	193	0.	.0	5.8	*	2	0020	293	0.	.0	5.8
1	0745	94	8.	.1	6.4	*	1	1605	194	0.	.0	5.8	*	2	0025	294	0.	.0	5.8
1	0750	95	8.	.1	6.4	*	1	1610	195	0.	.0	5.8	*	2	0030	295	0.	.0	5.8
1	0755	96	7.	.1	6.4	*	1	1615	196	0.	.0	5.8	*	2	0035	296	0.	.0	5.8
1	0800	97	7.	.1	6.3	*	1	1620	197	0.	.0	5.8	*	2	0040	297	0.	.0	5.8
1	0805	98	6.	.1	6.3	*	1	1625	198	0.	.0	5.8	*	2	0045	298	0.	.0	5.8
1	0810	99	6.	.1	6.3	*	1	1630	199	0.	.0	5.8	*	2	0050	299	0.	.0	5.8
1	0815	100	6.	.1	6.3	*	1	1635	200	0.	.0	5.8	*	2	0055	300	0.	.0	5.8
						*							*						

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PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW (CFS) 6-HR	24-HR	72-HR	24.92-HR
96.	4.83	28.	7.	7.	7.

(INCHES)	.565	.575	.575	.575
(AC-FT)	14.	14.	14.	14.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
1.	4.83	0.	0.	0.	0.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
7.93	4.83	6.75	6.08	6.07	6.07

CUMULATIVE AREA = .46 SQ MI

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          **************
          *            *
 93 KK    *   DEVELO   *     P RAINFALL FOR SUBBASIN G4
          *            *
          **************
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6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
THIS BASIN USED RAINFALL REDUCTION FACTOR OF .995
L = .98 Kb = .064 Adj. Slope = 26.3

103 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE

SUBBASIN RUNOFF DATA

97 BA SUBBASIN CHARACTERISTICS

TAREA	.25	SUBBASIN AREA

PRECIPITATION DATA

98 PB

STORM	1.99	BASIN TOTAL PRECIPITATION

11 PI INCREMENTAL PRECIPITATION PATTERN

.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.01	.01	.01	.01	.01	.01	.03
.03	.03	.05	.05	.05	.15	.15	.15	.03	.03
.03	.01	.01	.01	.01	.01	.01	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00								

99 LG GREEN AND AMPT LOSS RATE

STRTL	.43	STARTING LOSS
DTH	.25	MOISTURE DEFICIT
PSIF	3.50	WETTING FRONT SUCTION

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                XKSAT        .51  HYDRAULIC CONDUCTIVITY
                RTIMP      10.47  PERCENT IMPERVIOUS AREA

100 UC        CLARK UNITGRAPH
                  TC        .74  TIME OF CONCENTRATION
                   R        .58  STORAGE COEFFICIENT

101 UA        ACCUMULATED-AREA VS. TIME,  11 ORDINATES
                 .0      5.0     16.0     30.0     65.0     77.0     84.0     90.0     94.0     97.0
               100.0

                                          ***

                                   UNIT HYDROGRAPH PARAMETERS
                              CLARK   TC=   .74 HR,       R=   .58 HR
                             SNYDER   TP=   .42 HR,      CP=   .43

                                       UNIT HYDROGRAPH
                                  41 END-OF-PERIOD ORDINATES
            8.      33.      77.     134.     166.     167.     160.     150.     138.     124.
          107.      93.      80.      69.      60.      52.      45.      39.      34.      29.
           25.      22.      19.      16.      14.      12.      11.       9.       8.       7.
            6.       5.       4.       4.       3.       3.       2.       2.       2.       2.
            1.
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HYDROGRAPH AT STATION DEVELO

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
								*								
1		0000	1	.00	.00	.00	0.	*	1		1230	151	.00	.00	.00	0.
1		0005	2	.01	.00	.00	0.	*	1		1235	152	.00	.00	.00	0.
1		0010	3	.01	.00	.00	0.	*	1		1240	153	.00	.00	.00	0.
1		0015	4	.01	.00	.00	0.	*	1		1245	154	.00	.00	.00	0.
1		0020	5	.01	.00	.00	0.	*	1		1250	155	.00	.00	.00	0.
1		0025	6	.01	.00	.00	0.	*	1		1255	156	.00	.00	.00	0.
1		0030	7	.01	.00	.00	0.	*	1		1300	157	.00	.00	.00	0.
1		0035	8	.01	.01	.00	0.	*	1		1305	158	.00	.00	.00	0.
1		0040	9	.01	.01	.00	1.	*	1		1310	159	.00	.00	.00	0.
1		0045	10	.01	.01	.00	1.	*	1		1315	160	.00	.00	.00	0.
1		0050	11	.01	.00	.00	1.	*	1		1320	161	.00	.00	.00	0.
1		0055	12	.01	.00	.00	1.	*	1		1325	162	.00	.00	.00	0.
1		0100	13	.01	.00	.00	1.	*	1		1330	163	.00	.00	.00	0.
1		0105	14	.01	.00	.00	1.	*	1		1335	164	.00	.00	.00	0.
1		0110	15	.01	.00	.00	1.	*	1		1340	165	.00	.00	.00	0.
1		0115	16	.01	.00	.00	1.	*	1		1345	166	.00	.00	.00	0.
1		0120	17	.01	.01	.00	1.	*	1		1350	167	.00	.00	.00	0.
1		0125	18	.01	.01	.00	1.	*	1		1355	168	.00	.00	.00	0.
1		0130	19	.01	.01	.00	1.	*	1		1400	169	.00	.00	.00	0.
1		0135	20	.01	.00	.00	1.	*	1		1405	170	.00	.00	.00	0.
1		0140	21	.01	.00	.00	1.	*	1		1410	171	.00	.00	.00	0.
1		0145	22	.01	.00	.00	1.	*	1		1415	172	.00	.00	.00	0.
1		0150	23	.01	.00	.00	1.	*	1		1420	173	.00	.00	.00	0.
1		0155	24	.01	.00	.00	1.	*	1		1425	174	.00	.00	.00	0.
1		0200	25	.01	.00	.00	1.	*	1		1430	175	.00	.00	.00	0.

1	0205	26	.01	.00	.00	1.	*	1	1435	176	.00	.00	.00	0.
1	0210	27	.01	.00	.00	1.	*	1	1440	177	.00	.00	.00	0.
1	0215	28	.01	.00	.00	1.	*	1	1445	178	.00	.00	.00	0.
1	0220	29	.01	.01	.00	1.	*	1	1450	179	.00	.00	.00	0.
1	0225	30	.01	.01	.00	1.	*	1	1455	180	.00	.00	.00	0.
1	0230	31	.01	.01	.00	1.	*	1	1500	181	.00	.00	.00	0.
1	0235	32	.01	.01	.00	1.	*	1	1505	182	.00	.00	.00	0.
1	0240	33	.01	.01	.00	1.	*	1	1510	183	.00	.00	.00	0.
1	0245	34	.01	.01	.00	1.	*	1	1515	184	.00	.00	.00	0.
1	0250	35	.01	.01	.00	1.	*	1	1520	185	.00	.00	.00	0.
1	0255	36	.01	.01	.00	1.	*	1	1525	186	.00	.00	.00	0.
1	0300	37	.01	.01	.00	1.	*	1	1530	187	.00	.00	.00	0.
1	0305	38	.01	.01	.00	2.	*	1	1535	188	.00	.00	.00	0.
1	0310	39	.01	.01	.00	2.	*	1	1540	189	.00	.00	.00	0.
1	0315	40	.01	.01	.00	2.	*	1	1545	190	.00	.00	.00	0.
1	0320	41	.05	.05	.01	2.	*	1	1550	191	.00	.00	.00	0.
1	0325	42	.05	.05	.01	2.	*	1	1555	192	.00	.00	.00	0.
1	0330	43	.05	.05	.01	3.	*	1	1600	193	.00	.00	.00	0.
1	0335	44	.11	.10	.01	3.	*	1	1605	194	.00	.00	.00	0.
1	0340	45	.11	.10	.01	4.	*	1	1610	195	.00	.00	.00	0.
1	0345	46	.11	.10	.01	5.	*	1	1615	196	.00	.00	.00	0.
1	0350	47	.30	.13	.18	8.	*	1	1620	197	.00	.00	.00	0.
1	0355	48	.30	.10	.20	15.	*	1	1625	198	.00	.00	.00	0.
1	0400	49	.30	.09	.21	30.	*	1	1630	199	.00	.00	.00	0.
1	0405	50	.05	.05	.01	54.	*	1	1635	200	.00	.00	.00	0.
1	0410	51	.05	.05	.01	80.	*	1	1640	201	.00	.00	.00	0.
1	0415	52	.05	.05	.01	99.	*	1	1645	202	.00	.00	.00	0.
1	0420	53	.01	.01	.00	104.	*	1	1650	203	.00	.00	.00	0.
1	0425	54	.01	.01	.00	101.	*	1	1655	204	.00	.00	.00	0.
1	0430	55	.01	.01	.00	96.	*	1	1700	205	.00	.00	.00	0.
1	0435	56	.01	.01	.00	88.	*	1	1705	206	.00	.00	.00	0.
1	0440	57	.01	.01	.00	80.	*	1	1710	207	.00	.00	.00	0.
1	0445	58	.01	.01	.00	70.	*	1	1715	208	.00	.00	.00	0.
1	0450	59	.01	.01	.00	61.	*	1	1720	209	.00	.00	.00	0.
1	0455	60	.01	.01	.00	53.	*	1	1725	210	.00	.00	.00	0.
1	0500	61	.01	.01	.00	46.	*	1	1730	211	.00	.00	.00	0.
1	0505	62	.01	.01	.00	40.	*	1	1735	212	.00	.00	.00	0.
1	0510	63	.01	.01	.00	35.	*	1	1740	213	.00	.00	.00	0.
1	0515	64	.01	.01	.00	31.	*	1	1745	214	.00	.00	.00	0.
1	0520	65	.01	.01	.00	27.	*	1	1750	215	.00	.00	.00	0.
1	0525	66	.01	.01	.00	23.	*	1	1755	216	.00	.00	.00	0.
1	0530	67	.01	.01	.00	20.	*	1	1800	217	.00	.00	.00	0.
1	0535	68	.01	.00	.00	18.	*	1	1805	218	.00	.00	.00	0.
1	0540	69	.01	.00	.00	16.	*	1	1810	219	.00	.00	.00	0.
1	0545	70	.01	.00	.00	14.	*	1	1815	220	.00	.00	.00	0.
1	0550	71	.01	.01	.00	12.	*	1	1820	221	.00	.00	.00	0.
1	0555	72	.01	.01	.00	11.	*	1	1825	222	.00	.00	.00	0.
1	0600	73	.01	.01	.00	9.	*	1	1830	223	.00	.00	.00	0.
1	0605	74	.00	.00	.00	8.	*	1	1835	224	.00	.00	.00	0.
1	0610	75	.00	.00	.00	7.	*	1	1840	225	.00	.00	.00	0.
1	0615	76	.00	.00	.00	6.	*	1	1845	226	.00	.00	.00	0.
1	0620	77	.00	.00	.00	6.	*	1	1850	227	.00	.00	.00	0.
1	0625	78	.00	.00	.00	5.	*	1	1855	228	.00	.00	.00	0.
1	0630	79	.00	.00	.00	4.	*	1	1900	229	.00	.00	.00	0.
1	0635	80	.00	.00	.00	4.	*	1	1905	230	.00	.00	.00	0.
1	0640	81	.00	.00	.00	3.	*	1	1910	231	.00	.00	.00	0.
1	0645	82	.00	.00	.00	3.	*	1	1915	232	.00	.00	.00	0.
1	0650	83	.00	.00	.00	2.	*	1	1920	233	.00	.00	.00	0.

1	0655	84	.00	.00	.00	2.	*	1	1925	234	.00	.00	.00	0.
1	0700	85	.00	.00	.00	2.	*	1	1930	235	.00	.00	.00	0.
1	0705	86	.00	.00	.00	2.	*	1	1935	236	.00	.00	.00	0.
1	0710	87	.00	.00	.00	1.	*	1	1940	237	.00	.00	.00	0.
1	0715	88	.00	.00	.00	1.	*	1	1945	238	.00	.00	.00	0.
1	0720	89	.00	.00	.00	1.	*	1	1950	239	.00	.00	.00	0.
1	0725	90	.00	.00	.00	0.	*	1	1955	240	.00	.00	.00	0.
1	0730	91	.00	.00	.00	0.	*	1	2000	241	.00	.00	.00	0.
1	0735	92	.00	.00	.00	0.	*	1	2005	242	.00	.00	.00	0.
1	0740	93	.00	.00	.00	0.	*	1	2010	243	.00	.00	.00	0.
1	0745	94	.00	.00	.00	0.	*	1	2015	244	.00	.00	.00	0.
1	0750	95	.00	.00	.00	0.	*	1	2020	245	.00	.00	.00	0.
1	0755	96	.00	.00	.00	0.	*	1	2025	246	.00	.00	.00	0.
1	0800	97	.00	.00	.00	0.	*	1	2030	247	.00	.00	.00	0.
1	0805	98	.00	.00	.00	0.	*	1	2035	248	.00	.00	.00	0.
1	0810	99	.00	.00	.00	0.	*	1	2040	249	.00	.00	.00	0.
1	0815	100	.00	.00	.00	0.	*	1	2045	250	.00	.00	.00	0.
1	0820	101	.00	.00	.00	0.	*	1	2050	251	.00	.00	.00	0.
1	0825	102	.00	.00	.00	0.	*	1	2055	252	.00	.00	.00	0.
1	0830	103	.00	.00	.00	0.	*	1	2100	253	.00	.00	.00	0.
1	0835	104	.00	.00	.00	0.	*	1	2105	254	.00	.00	.00	0.
1	0840	105	.00	.00	.00	0.	*	1	2110	255	.00	.00	.00	0.
1	0845	106	.00	.00	.00	0.	*	1	2115	256	.00	.00	.00	0.
1	0850	107	.00	.00	.00	0.	*	1	2120	257	.00	.00	.00	0.
1	0855	108	.00	.00	.00	0.	*	1	2125	258	.00	.00	.00	0.
1	0900	109	.00	.00	.00	0.	*	1	2130	259	.00	.00	.00	0.
1	0905	110	.00	.00	.00	0.	*	1	2135	260	.00	.00	.00	0.
1	0910	111	.00	.00	.00	0.	*	1	2140	261	.00	.00	.00	0.
1	0915	112	.00	.00	.00	0.	*	1	2145	262	.00	.00	.00	0.
1	0920	113	.00	.00	.00	0.	*	1	2150	263	.00	.00	.00	0.
1	0925	114	.00	.00	.00	0.	*	1	2155	264	.00	.00	.00	0.
1	0930	115	.00	.00	.00	0.	*	1	2200	265	.00	.00	.00	0.
1	0935	116	.00	.00	.00	0.	*	1	2205	266	.00	.00	.00	0.
1	0940	117	.00	.00	.00	0.	*	1	2210	267	.00	.00	.00	0.
1	0945	118	.00	.00	.00	0.	*	1	2215	268	.00	.00	.00	0.
1	0950	119	.00	.00	.00	0.	*	1	2220	269	.00	.00	.00	0.
1	0955	120	.00	.00	.00	0.	*	1	2225	270	.00	.00	.00	0.
1	1000	121	.00	.00	.00	0.	*	1	2230	271	.00	.00	.00	0.
1	1005	122	.00	.00	.00	0.	*	1	2235	272	.00	.00	.00	0.
1	1010	123	.00	.00	.00	0.	*	1	2240	273	.00	.00	.00	0.
1	1015	124	.00	.00	.00	0.	*	1	2245	274	.00	.00	.00	0.
1	1020	125	.00	.00	.00	0.	*	1	2250	275	.00	.00	.00	0.
1	1025	126	.00	.00	.00	0.	*	1	2255	276	.00	.00	.00	0.
1	1030	127	.00	.00	.00	0.	*	1	2300	277	.00	.00	.00	0.
1	1035	128	.00	.00	.00	0.	*	1	2305	278	.00	.00	.00	0.
1	1040	129	.00	.00	.00	0.	*	1	2310	279	.00	.00	.00	0.
1	1045	130	.00	.00	.00	0.	*	1	2315	280	.00	.00	.00	0.
1	1050	131	.00	.00	.00	0.	*	1	2320	281	.00	.00	.00	0.
1	1055	132	.00	.00	.00	0.	*	1	2325	282	.00	.00	.00	0.
1	1100	133	.00	.00	.00	0.	*	1	2330	283	.00	.00	.00	0.
1	1105	134	.00	.00	.00	0.	*	1	2335	284	.00	.00	.00	0.
1	1110	135	.00	.00	.00	0.	*	1	2340	285	.00	.00	.00	0.
1	1115	136	.00	.00	.00	0.	*	1	2345	286	.00	.00	.00	0.
1	1120	137	.00	.00	.00	0.	*	1	2350	287	.00	.00	.00	0.
1	1125	138	.00	.00	.00	0.	*	1	2355	288	.00	.00	.00	0.
1	1130	139	.00	.00	.00	0.	*	2	0000	289	.00	.00	.00	0.
1	1135	140	.00	.00	.00	0.	*	2	0005	290	.00	.00	.00	0.
1	1140	141	.00	.00	.00	0.	*	2	0010	291	.00	.00	.00	0.

1	1145	142	.00	.00	.00	0.	*	2	0015	292	.00	.00	.00	0.
1	1150	143	.00	.00	.00	0.	*	2	0020	293	.00	.00	.00	0.
1	1155	144	.00	.00	.00	0.	*	2	0025	294	.00	.00	.00	0.
1	1200	145	.00	.00	.00	0.	*	2	0030	295	.00	.00	.00	0.
1	1205	146	.00	.00	.00	0.	*	2	0035	296	.00	.00	.00	0.
1	1210	147	.00	.00	.00	0.	*	2	0040	297	.00	.00	.00	0.
1	1215	148	.00	.00	.00	0.	*	2	0045	298	.00	.00	.00	0.
1	1220	149	.00	.00	.00	0.	*	2	0050	299	.00	.00	.00	0.
1	1225	150	.00	.00	.00	0.	*	2	0055	300	.00	.00	.00	0.
							*							

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TOTAL RAINFALL = 1.99, TOTAL LOSS = 1.29, TOTAL EXCESS = .70

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
104.	4.33		19.	5.	5.	5.
		(INCHES)	.690	.695	.695	.695
		(AC-FT)	9.	9.	9.	9.

CUMULATIVE AREA = .25 SQ MI

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          **************
          *            *
104 KK    *   Node9    *
          *            *
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Route water through detention basin to remove subdivision storage

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111 KO        OUTPUT CONTROL VARIABLES
                    IPRNT          2  PRINT CONTROL
                    IPLOT          0  PLOT CONTROL
                    QSCAL         0.  HYDROGRAPH PLOT SCALE

            HYDROGRAPH ROUTING DATA

106 RS        STORAGE ROUTING
                    NSTPS          1  NUMBER OF SUBREACHES
                     ITYP       STOR  TYPE OF INITIAL CONDITION
                   RSVRIC        .00  INITIAL CONDITION
                        X        .00 WORKING R AND D COEFFICIENT

107 SV          STORAGE          .0      7.6      7.6      7.7      7.8

108 SE        ELEVATION        .00    10.00    11.00    12.00    13.00

109 SL        LOW-LEVEL OUTLET
                    ELEVL        .00  ELEVATION AT CENTER OF OUTLET
                    CAREA       1.00  CROSS-SECTIONAL AREA
                     COQL        .60  COEFFICIENT
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                    EXPL        .50  EXPONENT OF HEAD

110 SS        SPILLWAY
                    CREL      10.00  SPILLWAY CREST ELEVATION
                   SPWID      50.00  SPILLWAY WIDTH
                    COQW       2.70  WEIR COEFFICIENT
                    EXPW       1.50  EXPONENT OF HEAD
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COMPUTED OUTFLOW-ELEVATION DATA

OUTFLOW	.00	3.64	4.02	4.49	5.09	5.87	6.94	8.48	10.89	15.22
ELEVATION	.00	.57	.70	.87	1.12	1.49	2.08	3.10	5.12	10.00
OUTFLOW	15.98	21.07	34.65	60.91	104.04	168.20	257.58	376.36	528.72	718.83
ELEVATION	10.03	10.12	10.27	10.48	10.75	11.08	11.47	11.92	12.43	13.00

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	.43	.53	.66	.85	1.13	1.58	2.35	3.88	7.58
OUTFLOW	.00	3.64	4.02	4.49	5.09	5.87	6.94	8.48	10.89	15.22
ELEVATION	.00	.57	.70	.87	1.12	1.49	2.08	3.10	5.12	10.00
STORAGE	7.58	7.58	7.59	7.59	7.60	7.60	7.61	7.65	7.69	7.70
OUTFLOW	15.98	21.07	34.65	60.91	104.04	150.96	168.20	257.58	376.36	398.51
ELEVATION	10.03	10.12	10.27	10.48	10.75	11.00	11.08	11.47	11.92	12.00
STORAGE	7.74	7.80								
OUTFLOW	528.72	718.83								
ELEVATION	12.43	13.00								

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 15. TO 719.
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
THIS CAN BE CORRECTED BY DECREASING THE TIME.INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

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HYDROGRAPH AT STATION Node9

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DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	.0	1		0820	101	12.	4.6	6.1	1		1640	201	1.	.1	.2
1		0005	2	0.	.0	.0	1		0825	102	12.	4.6	6.0	1		1645	202	1.	.1	.2
1		0010	3	0.	.0	.0	1		0830	103	12.	4.5	5.9	1		1650	203	1.	.1	.1
1		0015	4	0.	.0	.0	1		0835	104	11.	4.4	5.8	1		1655	204	1.	.1	.1
1		0020	5	0.	.0	.0	1		0840	105	11.	4.3	5.7	1		1700	205	1.	.1	.1
1		0025	6	0.	.0	.0	1		0845	106	11.	4.2	5.6	1		1705	206	1.	.1	.1
1		0030	7	0.	.0	.0	1		0850	107	11.	4.2	5.5	1		1710	207	1.	.1	.1
1		0035	8	0.	.0	.0	1		0855	108	11.	4.1	5.4	1		1715	208	1.	.1	.1
1		0040	9	0.	.0	.0	1		0900	109	11.	4.0	5.3	1		1720	209	1.	.1	.1
1		0045	10	0.	.0	.0	1		0905	110	11.	3.9	5.2	1		1725	210	1.	.1	.1
1		0050	11	0.	.0	.0	1		0910	111	11.	3.9	5.1	1		1730	211	1.	.1	.1
1		0055	12	0.	.0	.0	1		0915	112	11.	3.8	5.0	1		1735	212	1.	.1	.1
1		0100	13	0.	.0	.0	1		0920	113	11.	3.7	4.9	1		1740	213	1.	.1	.1

1	0105	14	0.	.0	.0	*	1	0925	114	11.	3.6	4.8	*	1	1745	214	1.	.1	.1
1	0110	15	0.	.0	.0	*	1	0930	115	10.	3.6	4.7	*	1	1750	215	0.	.1	.1
1	0115	16	0.	.0	.0	*	1	0935	116	10.	3.5	4.6	*	1	1755	216	0.	.1	.1
1	0120	17	0.	.0	.1	*	1	0940	117	10.	3.4	4.5	*	1	1800	217	0.	.1	.1
1	0125	18	0.	.0	.1	*	1	0945	118	10.	3.4	4.4	*	1	1805	218	0.	.0	.1
1	0130	19	0.	.0	.1	*	1	0950	119	10.	3.3	4.3	*	1	1810	219	0.	.0	.1
1	0135	20	0.	.1	.1	*	1	0955	120	10.	3.2	4.2	*	1	1815	220	0.	.0	.1
1	0140	21	0.	.1	.1	*	1	1000	121	10.	3.1	4.2	*	1	1820	221	0.	.0	.1
1	0145	22	0.	.1	.1	*	1	1005	122	10.	3.1	4.1	*	1	1825	222	0.	.0	.0
1	0150	23	1.	.1	.1	*	1	1010	123	10.	3.0	4.0	*	1	1830	223	0.	.0	.0
1	0155	24	1.	.1	.1	*	1	1015	124	9.	3.0	3.9	*	1	1835	224	0.	.0	.0
1	0200	25	1.	.1	.1	*	1	1020	125	9.	2.9	3.8	*	1	1840	225	0.	.0	.0
1	0205	26	1.	.1	.1	*	1	1025	126	9.	2.8	3.7	*	1	1845	226	0.	.0	.0
1	0210	27	1.	.1	.1	*	1	1030	127	9.	2.8	3.6	*	1	1850	227	0.	.0	.0
1	0215	28	1.	.1	.1	*	1	1035	128	9.	2.7	3.6	*	1	1855	228	0.	.0	.0
1	0220	29	1.	.1	.1	*	1	1040	129	9.	2.6	3.5	*	1	1900	229	0.	.0	.0
1	0225	30	1.	.1	.1	*	1	1045	130	9.	2.6	3.4	*	1	1905	230	0.	.0	.0
1	0230	31	1.	.1	.1	*	1	1050	131	9.	2.5	3.3	*	1	1910	231	0.	.0	.0
1	0235	32	1.	.1	.1	*	1	1055	132	9.	2.5	3.2	*	1	1915	232	0.	.0	.0
1	0240	33	1.	.1	.1	*	1	1100	133	9.	2.4	3.2	*	1	1920	233	0.	.0	.0
1	0245	34	1.	.1	.1	*	1	1105	134	8.	2.3	3.1	*	1	1925	234	0.	.0	.0
1	0250	35	1.	.1	.1	*	1	1110	135	8.	2.3	3.0	*	1	1930	235	0.	.0	.0
1	0255	36	1.	.1	.1	*	1	1115	136	8.	2.2	2.9	*	1	1935	236	0.	.0	.0
1	0300	37	1.	.1	.1	*	1	1120	137	8.	2.2	2.9	*	1	1940	237	0.	.0	.0
1	0305	38	1.	.1	.1	*	1	1125	138	8.	2.1	2.8	*	1	1945	238	0.	.0	.0
1	0310	39	1.	.1	.2	*	1	1130	139	8.	2.1	2.7	*	1	1950	239	0.	.0	.0
1	0315	40	1.	.1	.2	*	1	1135	140	8.	2.0	2.6	*	1	1955	240	0.	.0	.0
1	0320	41	1.	.1	.2	*	1	1140	141	8.	1.9	2.6	*	1	2000	241	0.	.0	.0
1	0325	42	1.	.1	.2	*	1	1145	142	8.	1.9	2.5	*	1	2005	242	0.	.0	.0
1	0330	43	1.	.1	.2	*	1	1150	143	7.	1.8	2.4	*	1	2010	243	0.	.0	.0
1	0335	44	1.	.2	.2	*	1	1155	144	7.	1.8	2.4	*	1	2015	244	0.	.0	.0
1	0340	45	1.	.2	.2	*	1	1200	145	7.	1.7	2.3	*	1	2020	245	0.	.0	.0
1	0345	46	2.	.2	.3	*	1	1205	146	7.	1.7	2.2	*	1	2025	246	0.	.0	.0
1	0350	47	2.	.2	.3	*	1	1210	147	7.	1.6	2.2	*	1	2030	247	0.	.0	.0
1	0355	48	2.	.3	.4	*	1	1215	148	7.	1.6	2.1	*	1	2035	248	0.	.0	.0
1	0400	49	4.	.4	.6	*	1	1220	149	7.	1.5	2.0	*	1	2040	249	0.	.0	.0
1	0405	50	5.	.7	.9	*	1	1225	150	7.	1.5	2.0	*	1	2045	250	0.	.0	.0
1	0410	51	6.	1.1	1.5	*	1	1230	151	7.	1.5	1.9	*	1	2050	251	0.	.0	.0
1	0415	52	7.	1.7	2.2	*	1	1235	152	7.	1.4	1.9	*	1	2055	252	0.	.0	.0
1	0420	53	8.	2.3	3.1	*	1	1240	153	6.	1.4	1.8	*	1	2100	253	0.	.0	.0
1	0425	54	9.	3.0	3.9	*	1	1245	154	6.	1.3	1.7	*	1	2105	254	0.	.0	.0
1	0430	55	10.	3.6	4.7	*	1	1250	155	6.	1.3	1.7	*	1	2110	255	0.	.0	.0
1	0435	56	11.	4.2	5.5	*	1	1255	156	6.	1.2	1.6	*	1	2115	256	0.	.0	.0
1	0440	57	12.	4.7	6.1	*	1	1300	157	6.	1.2	1.6	*	1	2120	257	0.	.0	.0
1	0445	58	12.	5.1	6.7	*	1	1305	158	6.	1.2	1.5	*	1	2125	258	0.	.0	.0
1	0450	59	13.	5.5	7.2	*	1	1310	159	6.	1.1	1.5	*	1	2130	259	0.	.0	.0
1	0455	60	13.	5.8	7.6	*	1	1315	160	6.	1.1	1.4	*	1	2135	260	0.	.0	.0
1	0500	61	13.	6.0	7.9	*	1	1320	161	6.	1.0	1.4	*	1	2140	261	0.	.0	.0
1	0505	62	14.	6.2	8.2	*	1	1325	162	5.	1.0	1.3	*	1	2145	262	0.	.0	.0
1	0510	63	14.	6.4	8.4	*	1	1330	163	5.	1.0	1.3	*	1	2150	263	0.	.0	.0
1	0515	64	14.	6.5	8.6	*	1	1335	164	5.	.9	1.2	*	1	2155	264	0.	.0	.0
1	0520	65	14.	6.6	8.7	*	1	1340	165	5.	.9	1.2	*	1	2200	265	0.	.0	.0
1	0525	66	14.	6.7	8.8	*	1	1345	166	5.	.8	1.1	*	1	2205	266	0.	.0	.0
1	0530	67	14.	6.7	8.9	*	1	1350	167	5.	.8	1.1	*	1	2210	267	0.	.0	.0
1	0535	68	14.	6.8	8.9	*	1	1355	168	5.	.8	1.0	*	1	2215	268	0.	.0	.0
1	0540	69	14.	6.8	9.0	*	1	1400	169	5.	.7	1.0	*	1	2220	269	0.	.0	.0
1	0545	70	14.	6.8	9.0	*	1	1405	170	5.	.7	.9	*	1	2225	270	0.	.0	.0
1	0550	71	14.	6.8	8.9	*	1	1410	171	5.	.7	.9	*	1	2230	271	0.	.0	.0

1	0555	72	14.	6.8	8.9 *	1	1415	172	4.	.7	.9 *	1	2235	272	0.	.0	.0
1	0600	73	14.	6.7	8.9 *	1	1420	173	4.	.6	.8 *	1	2240	273	0.	.0	.0
1	0605	74	14.	6.7	8.8 *	1	1425	174	4.	.6	.8 *	1	2245	274	0.	.0	.0
1	0610	75	14.	6.7	8.8 *	1	1430	175	4.	.6	.7 *	1	2250	275	0.	.0	.0
1	0615	76	14.	6.6	8.7 *	1	1435	176	4.	.5	.7 *	1	2255	276	0.	.0	.0
1	0620	77	14.	6.5	8.6 *	1	1440	177	4.	.5	.7 *	1	2300	277	0.	.0	.0
1	0625	78	14.	6.5	8.6 *	1	1445	178	4.	.5	.6 *	1	2305	278	0.	.0	.0
1	0630	79	14.	6.4	8.5 *	1	1450	179	4.	.5	.6 *	1	2310	279	0.	.0	.0
1	0635	80	14.	6.4	8.4 *	1	1455	180	4.	.4	.6 *	1	2315	280	0.	.0	.0
1	0640	81	14.	6.3	8.3 *	1	1500	181	3.	.4	.5 *	1	2320	281	0.	.0	.0
1	0645	82	14.	6.2	8.2 *	1	1505	182	3.	.4	.5 *	1	2325	282	0.	.0	.0
1	0650	83	14.	6.1	8.1 *	1	1510	183	3.	.4	.5 *	1	2330	283	0.	.0	.0
1	0655	84	13.	6.1	8.0 *	1	1515	184	3.	.3	.4 *	1	2335	284	0.	.0	.0
1	0700	85	13.	6.0	7.9 *	1	1520	185	3.	.3	.4 *	1	2340	285	0.	.0	.0
1	0705	86	13.	5.9	7.8 *	1	1525	186	3.	.3	.4 *	1	2345	286	0.	.0	.0
1	0710	87	13.	5.8	7.7 *	1	1530	187	2.	.3	.4 *	1	2350	287	0.	.0	.0
1	0715	88	13.	5.7	7.6 *	1	1535	188	2.	.3	.4 *	1	2355	288	0.	.0	.0
1	0720	89	13.	5.6	7.4 *	1	1540	189	2.	.3	.3 *	2	0000	289	0.	.0	.0
1	0725	90	13.	5.6	7.3 *	1	1545	190	2.	.2	.3 *	2	0005	290	0.	.0	.0
1	0730	91	13.	5.5	7.2 *	1	1550	191	2.	.2	.3 *	2	0010	291	0.	.0	.0
1	0735	92	13.	5.4	7.1 *	1	1555	192	2.	.2	.3 *	2	0015	292	0.	.0	.0
1	0740	93	13.	5.3	7.0 *	1	1600	193	2.	.2	.3 *	2	0020	293	0.	.0	.0
1	0745	94	12.	5.2	6.9 *	1	1605	194	2.	.2	.3 *	2	0025	294	0.	.0	.0
1	0750	95	12.	5.1	6.8 *	1	1610	195	2.	.2	.2 *	2	0030	295	0.	.0	.0
1	0755	96	12.	5.0	6.7 *	1	1615	196	1.	.2	.2 *	2	0035	296	0.	.0	.0
1	0800	97	12.	5.0	6.5 *	1	1620	197	1.	.2	.2 *	2	0040	297	0.	.0	.0
1	0805	98	12.	4.9	6.4 *	1	1625	198	1.	.2	.2 *	2	0045	298	0.	.0	.0
1	0810	99	12.	4.8	6.3 *	1	1630	199	1.	.1	.2 *	2	0050	299	0.	.0	.0
1	0815	100	12.	4.7	6.2 *	1	1635	200	1.	.1	.2 *	2	0055	300	0.	.0	.0
					*						*						

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)					
		(CFS)				
14.	5.75		12.	5.	5.	5.
		(INCHES)	.452	.695	.695	.695
		(AC-FT)	6.	9.	9.	9.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
(AC-FT)	(HR)				
7.	5.75	5.	2.	2.	2.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
(FEET)	(HR)				
8.96	5.75	6.72	2.12	2.05	2.05

CUMULATIVE AREA = .25 SQ MI

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              **************
              *            *
112 KK        *   Node15   *
              *            *
              **************
                        confluence g1-g2-g3 with g4

115 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

114 HC          HYDROGRAPH COMBINATION
                      ICOMP          2  NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION Node15
SUM OF 2 HYDROGRAPHS

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	49.	1		1230	151	7.	1		1845	226	0.
1		0005	2	0.	1		0620	77	47.	1		1235	152	7.	1		1850	227	0.
1		0010	3	0.	1		0625	78	44.	1		1240	153	6.	1		1855	228	0.
1		0015	4	0.	1		0630	79	41.	1		1245	154	6.	1		1900	229	0.
1		0020	5	0.	1		0635	80	39.	1		1250	155	6.	1		1905	230	0.
1		0025	6	0.	1		0640	81	37.	1		1255	156	6.	1		1910	231	0.
1		0030	7	0.	1		0645	82	35.	1		1300	157	6.	1		1915	232	0.
1		0035	8	0.	1		0650	83	34.	1		1305	158	6.	1		1920	233	0.
1		0040	9	0.	1		0655	84	33.	1		1310	159	6.	1		1925	234	0.
1		0045	10	0.	1		0700	85	31.	1		1315	160	6.	1		1930	235	0.
1		0050	11	0.	1		0705	86	30.	1		1320	161	6.	1		1935	236	0.
1		0055	12	0.	1		0710	87	28.	1		1325	162	5.	1		1940	237	0.
1		0100	13	0.	1		0715	88	27.	1		1330	163	5.	1		1945	238	0.
1		0105	14	0.	1		0720	89	26.	1		1335	164	5.	1		1950	239	0.
1		0110	15	1.	1		0725	90	25.	1		1340	165	5.	1		1955	240	0.
1		0115	16	1.	1		0730	91	24.	1		1345	166	5.	1		2000	241	0.
1		0120	17	1.	1		0735	92	23.	1		1350	167	5.	1		2005	242	0.
1		0125	18	1.	1		0740	93	22.	1		1355	168	5.	1		2010	243	0.
1		0130	19	1.	1		0745	94	21.	1		1400	169	5.	1		2015	244	0.
1		0135	20	1.	1		0750	95	20.	1		1405	170	5.	1		2020	245	0.
1		0140	21	1.	1		0755	96	19.	1		1410	171	5.	1		2025	246	0.
1		0145	22	1.	1		0800	97	19.	1		1415	172	4.	1		2030	247	0.
1		0150	23	1.	1		0805	98	18.	1		1420	173	4.	1		2035	248	0.
1		0155	24	1.	1		0810	99	18.	1		1425	174	4.	1		2040	249	0.
1		0200	25	1.	1		0815	100	18.	1		1430	175	4.	1		2045	250	0.
1		0205	26	1.	1		0820	101	17.	1		1435	176	4.	1		2050	251	0.
1		0210	27	1.	1		0825	102	17.	1		1440	177	4.	1		2055	252	0.
1		0215	28	2.	1		0830	103	16.	1		1445	178	4.	1		2100	253	0.
1		0220	29	2.	1		0835	104	16.	1		1450	179	4.	1		2105	254	0.
1		0225	30	2.	1		0840	105	16.	1		1455	180	4.	1		2110	255	0.
1		0230	31	2.	1		0845	106	15.	1		1500	181	3.	1		2115	256	0.
1		0235	32	2.	1		0850	107	15.	1		1505	182	3.	1		2120	257	0.

1	0240	33	2.	*	1	0855	108	14.	*	1	1510	183	3.	*	1	2125	258	0.
1	0245	34	2.	*	1	0900	109	14.	*	1	1515	184	3.	*	1	2130	259	0.
1	0250	35	2.	*	1	0905	110	14.	*	1	1520	185	3.	*	1	2135	260	0.
1	0255	36	2.	*	1	0910	111	13.	*	1	1525	186	3.	*	1	2140	261	0.
1	0300	37	2.	*	1	0915	112	13.	*	1	1530	187	2.	*	1	2145	262	0.
1	0305	38	2.	*	1	0920	113	13.	*	1	1535	188	2.	*	1	2150	263	0.
1	0310	39	2.	*	1	0925	114	12.	*	1	1540	189	2.	*	1	2155	264	0.
1	0315	40	2.	*	1	0930	115	12.	*	1	1545	190	2.	*	1	2200	265	0.
1	0320	41	2.	*	1	0935	116	12.	*	1	1550	191	2.	*	1	2205	266	0.
1	0325	42	2.	*	1	0940	117	12.	*	1	1555	192	2.	*	1	2210	267	0.
1	0330	43	2.	*	1	0945	118	11.	*	1	1600	193	2.	*	1	2215	268	0.
1	0335	44	3.	*	1	0950	119	11.	*	1	1605	194	2.	*	1	2220	269	0.
1	0340	45	3.	*	1	0955	120	11.	*	1	1610	195	2.	*	1	2225	270	0.
1	0345	46	3.	*	1	1000	121	11.	*	1	1615	196	1.	*	1	2230	271	0.
1	0350	47	4.	*	1	1005	122	10.	*	1	1620	197	1.	*	1	2235	272	0.
1	0355	48	4.	*	1	1010	123	10.	*	1	1625	198	1.	*	1	2240	273	0.
1	0400	49	6.	*	1	1015	124	10.	*	1	1630	199	1.	*	1	2245	274	0.
1	0405	50	8.	*	1	1020	125	10.	*	1	1635	200	1.	*	1	2250	275	0.
1	0410	51	12.	*	1	1025	126	9.	*	1	1640	201	1.	*	1	2255	276	0.
1	0415	52	20.	*	1	1030	127	9.	*	1	1645	202	1.	*	1	2300	277	0.
1	0420	53	31.	*	1	1035	128	9.	*	1	1650	203	1.	*	1	2305	278	0.
1	0425	54	47.	*	1	1040	129	9.	*	1	1655	204	1.	*	1	2310	279	0.
1	0430	55	65.	*	1	1045	130	9.	*	1	1700	205	1.	*	1	2315	280	0.
1	0435	56	83.	*	1	1050	131	9.	*	1	1705	206	1.	*	1	2320	281	0.
1	0440	57	97.	*	1	1055	132	9.	*	1	1710	207	1.	*	1	2325	282	0.
1	0445	58	105.	*	1	1100	133	9.	*	1	1715	208	1.	*	1	2330	283	0.
1	0450	59	108.	*	1	1105	134	8.	*	1	1720	209	1.	*	1	2335	284	0.
1	0455	60	108.	*	1	1110	135	8.	*	1	1725	210	1.	*	1	2340	285	0.
1	0500	61	107.	*	1	1115	136	8.	*	1	1730	211	1.	*	1	2345	286	0.
1	0505	62	104.	*	1	1120	137	8.	*	1	1735	212	1.	*	1	2350	287	0.
1	0510	63	101.	*	1	1125	138	8.	*	1	1740	213	1.	*	1	2355	288	0.
1	0515	64	98.	*	1	1130	139	8.	*	1	1745	214	1.	*	2	0000	289	0.
1	0520	65	94.	*	1	1135	140	8.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	90.	*	1	1140	141	8.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	85.	*	1	1145	142	8.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	80.	*	1	1150	143	7.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	75.	*	1	1155	144	7.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	70.	*	1	1200	145	7.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	66.	*	1	1205	146	7.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	62.	*	1	1210	147	7.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	59.	*	1	1215	148	7.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	56.	*	1	1220	149	7.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	53.	*	1	1225	150	7.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
108.	4.92		40.	12.	11.	11.
		(INCHES)	.523	.617	.617	.617
		(AC-FT)	20.	24.	24.	24.

CUMULATIVE AREA = .71 SQ MI

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*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


          **************
          *            *
116 KK    *   Develo   *     pe rainfall for phase 2 area
          *            *
          **************
                        6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
                        THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
                       L =  .072  Kb = .064  Adj. Slope =   9.9

126 KO          OUTPUT CONTROL VARIABLES
                      IPRNT           2  PRINT CONTROL
                      IPLOT           0  PLOT CONTROL
                      QSCAL          0.  HYDROGRAPH PLOT SCALE

              SUBBASIN RUNOFF DATA

120 BA          SUBBASIN CHARACTERISTICS
                      TAREA         .04  SUBBASIN AREA

                PRECIPITATION DATA

121 PB                STORM        1.99  BASIN TOTAL PRECIPITATION

 11 PI            INCREMENTAL PRECIPITATION PATTERN
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00       .00       .01       .01       .01       .01       .01       .01       .03
                      .03       .03       .05       .05       .05       .15       .15       .15       .03       .03
                      .03       .01       .01       .01       .01       .01       .01       .00       .00       .00
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00

122 LG          GREEN AND AMPT LOSS RATE
                      STRTL         .43  STARTING LOSS
                        DTH         .25  MOISTURE DEFICIT
                       PSIF        3.50  WETTING FRONT SUCTION
                      XKSAT         .51  HYDRAULIC CONDUCTIVITY
                      RTIMP         .00  PERCENT IMPERVIOUS AREA

123 UC          CLARK UNITGRAPH
                         TC        1.09  TIME OF CONCENTRATION
                          R        1.03  STORAGE COEFFICIENT

124 UA          ACCUMULATED-AREA VS. TIME,  11 ORDINATES
                        .0       5.0      16.0      30.0      65.0      77.0      84.0      90.0      94.0      97.0
                     100.0

                                                   ***

                                          UNIT HYDROGRAPH PARAMETERS
                                     CLARK   TC=  1.09 HR,       R=  1.03 HR
                                    SNYDER   TP=   .67 HR,      CP=   .40
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UNIT HYDROGRAPH

71 END-OF-PERIOD ORDINATES

0.	2.	4.	6.	11.	15.	17.	17.	17.	17.
16.	15.	15.	14.	13.	12.	11.	10.	9.	9.
8.	7.	7.	6.	6.	5.	5.	5.	4.	4.
4.	3.	3.	3.	3.	2.	2.	2.	2.	2.
2.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.									

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HYDROGRAPH AT STATION Develo

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1		0000	1	.00	.00	.00	0.	*	1		1230	151	.00	.00	.00	0.
1		0005	2	.01	.01	.00	0.	*	1		1235	152	.00	.00	.00	0.
1		0010	3	.01	.01	.00	0.	*	1		1240	153	.00	.00	.00	0.
1		0015	4	.01	.01	.00	0.	*	1		1245	154	.00	.00	.00	0.
1		0020	5	.01	.01	.00	0.	*	1		1250	155	.00	.00	.00	0.
1		0025	6	.01	.01	.00	0.	*	1		1255	156	.00	.00	.00	0.
1		0030	7	.01	.01	.00	0.	*	1		1300	157	.00	.00	.00	0.
1		0035	8	.01	.01	.00	0.	*	1		1305	158	.00	.00	.00	0.
1		0040	9	.01	.01	.00	0.	*	1		1310	159	.00	.00	.00	0.
1		0045	10	.01	.01	.00	0.	*	1		1315	160	.00	.00	.00	0.
1		0050	11	.01	.01	.00	0.	*	1		1320	161	.00	.00	.00	0.
1		0055	12	.01	.01	.00	0.	*	1		1325	162	.00	.00	.00	0.
1		0100	13	.01	.01	.00	0.	*	1		1330	163	.00	.00	.00	0.
1		0105	14	.01	.01	.00	0.	*	1		1335	164	.00	.00	.00	0.
1		0110	15	.01	.01	.00	0.	*	1		1340	165	.00	.00	.00	0.
1		0115	16	.01	.01	.00	0.	*	1		1345	166	.00	.00	.00	0.
1		0120	17	.01	.01	.00	0.	*	1		1350	167	.00	.00	.00	0.
1		0125	18	.01	.01	.00	0.	*	1		1355	168	.00	.00	.00	0.
1		0130	19	.01	.01	.00	0.	*	1		1400	169	.00	.00	.00	0.
1		0135	20	.01	.01	.00	0.	*	1		1405	170	.00	.00	.00	0.
1		0140	21	.01	.01	.00	0.	*	1		1410	171	.00	.00	.00	0.
1		0145	22	.01	.01	.00	0.	*	1		1415	172	.00	.00	.00	0.
1		0150	23	.01	.01	.00	0.	*	1		1420	173	.00	.00	.00	0.
1		0155	24	.01	.01	.00	0.	*	1		1425	174	.00	.00	.00	0.
1		0200	25	.01	.01	.00	0.	*	1		1430	175	.00	.00	.00	0.
1		0205	26	.01	.01	.00	0.	*	1		1435	176	.00	.00	.00	0.
1		0210	27	.01	.01	.00	0.	*	1		1440	177	.00	.00	.00	0.
1		0215	28	.01	.01	.00	0.	*	1		1445	178	.00	.00	.00	0.
1		0220	29	.01	.01	.00	0.	*	1		1450	179	.00	.00	.00	0.
1		0225	30	.01	.01	.00	0.	*	1		1455	180	.00	.00	.00	0.
1		0230	31	.01	.01	.00	0.	*	1		1500	181	.00	.00	.00	0.
1		0235	32	.01	.01	.00	0.	*	1		1505	182	.00	.00	.00	0.
1		0240	33	.01	.01	.00	0.	*	1		1510	183	.00	.00	.00	0.
1		0245	34	.01	.01	.00	0.	*	1		1515	184	.00	.00	.00	0.
1		0250	35	.01	.01	.00	0.	*	1		1520	185	.00	.00	.00	0.
1		0255	36	.01	.01	.00	0.	*	1		1525	186	.00	.00	.00	0.
1		0300	37	.01	.01	.00	0.	*	1		1530	187	.00	.00	.00	0.
1		0305	38	.01	.01	.00	0.	*	1		1535	188	.00	.00	.00	0.
1		0310	39	.01	.01	.00	0.	*	1		1540	189	.00	.00	.00	0.

1	0315	40	.01	.01	.00	0.	*	1	1545	190	.00	.00	.00	0.
1	0320	41	.05	.05	.00	0.	*	1	1550	191	.00	.00	.00	0.
1	0325	42	.05	.05	.00	0.	*	1	1555	192	.00	.00	.00	0.
1	0330	43	.05	.05	.00	0.	*	1	1600	193	.00	.00	.00	0.
1	0335	44	.11	.11	.00	0.	*	1	1605	194	.00	.00	.00	0.
1	0340	45	.11	.11	.00	0.	*	1	1610	195	.00	.00	.00	0.
1	0345	46	.11	.11	.00	0.	*	1	1615	196	.00	.00	.00	0.
1	0350	47	.30	.14	.16	0.	*	1	1620	197	.00	.00	.00	0.
1	0355	48	.30	.12	.19	0.	*	1	1625	198	.00	.00	.00	0.
1	0400	49	.30	.10	.20	1.	*	1	1630	199	.00	.00	.00	0.
1	0405	50	.05	.05	.00	2.	*	1	1635	200	.00	.00	.00	0.
1	0410	51	.05	.05	.00	4.	*	1	1640	201	.00	.00	.00	0.
1	0415	52	.05	.05	.00	6.	*	1	1645	202	.00	.00	.00	0.
1	0420	53	.01	.01	.00	8.	*	1	1650	203	.00	.00	.00	0.
1	0425	54	.01	.01	.00	9.	*	1	1655	204	.00	.00	.00	0.
1	0430	55	.01	.01	.00	9.	*	1	1700	205	.00	.00	.00	0.
1	0435	56	.01	.01	.00	9.	*	1	1705	206	.00	.00	.00	0.
1	0440	57	.01	.01	.00	9.	*	1	1710	207	.00	.00	.00	0.
1	0445	58	.01	.01	.00	9.	*	1	1715	208	.00	.00	.00	0.
1	0450	59	.01	.01	.00	9.	*	1	1720	209	.00	.00	.00	0.
1	0455	60	.01	.01	.00	8.	*	1	1725	210	.00	.00	.00	0.
1	0500	61	.01	.01	.00	8.	*	1	1730	211	.00	.00	.00	0.
1	0505	62	.01	.01	.00	7.	*	1	1735	212	.00	.00	.00	0.
1	0510	63	.01	.01	.00	7.	*	1	1740	213	.00	.00	.00	0.
1	0515	64	.01	.01	.00	6.	*	1	1745	214	.00	.00	.00	0.
1	0520	65	.01	.01	.00	6.	*	1	1750	215	.00	.00	.00	0.
1	0525	66	.01	.01	.00	5.	*	1	1755	216	.00	.00	.00	0.
1	0530	67	.01	.01	.00	5.	*	1	1800	217	.00	.00	.00	0.
1	0535	68	.01	.01	.00	4.	*	1	1805	218	.00	.00	.00	0.
1	0540	69	.01	.01	.00	4.	*	1	1810	219	.00	.00	.00	0.
1	0545	70	.01	.01	.00	4.	*	1	1815	220	.00	.00	.00	0.
1	0550	71	.01	.01	.00	3.	*	1	1820	221	.00	.00	.00	0.
1	0555	72	.01	.01	.00	3.	*	1	1825	222	.00	.00	.00	0.
1	0600	73	.01	.01	.00	3.	*	1	1830	223	.00	.00	.00	0.
1	0605	74	.00	.00	.00	3.	*	1	1835	224	.00	.00	.00	0.
1	0610	75	.00	.00	.00	2.	*	1	1840	225	.00	.00	.00	0.
1	0615	76	.00	.00	.00	2.	*	1	1845	226	.00	.00	.00	0.
1	0620	77	.00	.00	.00	2.	*	1	1850	227	.00	.00	.00	0.
1	0625	78	.00	.00	.00	2.	*	1	1855	228	.00	.00	.00	0.
1	0630	79	.00	.00	.00	2.	*	1	1900	229	.00	.00	.00	0.
1	0635	80	.00	.00	.00	2.	*	1	1905	230	.00	.00	.00	0.
1	0640	81	.00	.00	.00	2.	*	1	1910	231	.00	.00	.00	0.
1	0645	82	.00	.00	.00	1.	*	1	1915	232	.00	.00	.00	0.
1	0650	83	.00	.00	.00	1.	*	1	1920	233	.00	.00	.00	0.
1	0655	84	.00	.00	.00	1.	*	1	1925	234	.00	.00	.00	0.
1	0700	85	.00	.00	.00	1.	*	1	1930	235	.00	.00	.00	0.
1	0705	86	.00	.00	.00	1.	*	1	1935	236	.00	.00	.00	0.
1	0710	87	.00	.00	.00	1.	*	1	1940	237	.00	.00	.00	0.
1	0715	88	.00	.00	.00	1.	*	1	1945	238	.00	.00	.00	0.
1	0720	89	.00	.00	.00	1.	*	1	1950	239	.00	.00	.00	0.
1	0725	90	.00	.00	.00	1.	*	1	1955	240	.00	.00	.00	0.
1	0730	91	.00	.00	.00	1.	*	1	2000	241	.00	.00	.00	0.
1	0735	92	.00	.00	.00	1.	*	1	2005	242	.00	.00	.00	0.
1	0740	93	.00	.00	.00	1.	*	1	2010	243	.00	.00	.00	0.
1	0745	94	.00	.00	.00	1.	*	1	2015	244	.00	.00	.00	0.
1	0750	95	.00	.00	.00	0.	*	1	2020	245	.00	.00	.00	0.
1	0755	96	.00	.00	.00	0.	*	1	2025	246	.00	.00	.00	0.
1	0800	97	.00	.00	.00	0.	*	1	2030	247	.00	.00	.00	0.

1	0805	98	.00	.00	.00	0.	*	1	2035	248	.00	.00	.00	0.
1	0810	99	.00	.00	.00	0.	*	1	2040	249	.00	.00	.00	0.
1	0815	100	.00	.00	.00	0.	*	1	2045	250	.00	.00	.00	0.
1	0820	101	.00	.00	.00	0.	*	1	2050	251	.00	.00	.00	0.
1	0825	102	.00	.00	.00	0.	*	1	2055	252	.00	.00	.00	0.
1	0830	103	.00	.00	.00	0.	*	1	2100	253	.00	.00	.00	0.
1	0835	104	.00	.00	.00	0.	*	1	2105	254	.00	.00	.00	0.
1	0840	105	.00	.00	.00	0.	*	1	2110	255	.00	.00	.00	0.
1	0845	106	.00	.00	.00	0.	*	1	2115	256	.00	.00	.00	0.
1	0850	107	.00	.00	.00	0.	*	1	2120	257	.00	.00	.00	0.
1	0855	108	.00	.00	.00	0.	*	1	2125	258	.00	.00	.00	0.
1	0900	109	.00	.00	.00	0.	*	1	2130	259	.00	.00	.00	0.
1	0905	110	.00	.00	.00	0.	*	1	2135	260	.00	.00	.00	0.
1	0910	111	.00	.00	.00	0.	*	1	2140	261	.00	.00	.00	0.
1	0915	112	.00	.00	.00	0.	*	1	2145	262	.00	.00	.00	0.
1	0920	113	.00	.00	.00	0.	*	1	2150	263	.00	.00	.00	0.
1	0925	114	.00	.00	.00	0.	*	1	2155	264	.00	.00	.00	0.
1	0930	115	.00	.00	.00	0.	*	1	2200	265	.00	.00	.00	0.
1	0935	116	.00	.00	.00	0.	*	1	2205	266	.00	.00	.00	0.
1	0940	117	.00	.00	.00	0.	*	1	2210	267	.00	.00	.00	0.
1	0945	118	.00	.00	.00	0.	*	1	2215	268	.00	.00	.00	0.
1	0950	119	.00	.00	.00	0.	*	1	2220	269	.00	.00	.00	0.
1	0955	120	.00	.00	.00	0.	*	1	2225	270	.00	.00	.00	0.
1	1000	121	.00	.00	.00	0.	*	1	2230	271	.00	.00	.00	0.
1	1005	122	.00	.00	.00	0.	*	1	2235	272	.00	.00	.00	0.
1	1010	123	.00	.00	.00	0.	*	1	2240	273	.00	.00	.00	0.
1	1015	124	.00	.00	.00	0.	*	1	2245	274	.00	.00	.00	0.
1	1020	125	.00	.00	.00	0.	*	1	2250	275	.00	.00	.00	0.
1	1025	126	.00	.00	.00	0.	*	1	2255	276	.00	.00	.00	0.
1	1030	127	.00	.00	.00	0.	*	1	2300	277	.00	.00	.00	0.
1	1035	128	.00	.00	.00	0.	*	1	2305	278	.00	.00	.00	0.
1	1040	129	.00	.00	.00	0.	*	1	2310	279	.00	.00	.00	0.
1	1045	130	.00	.00	.00	0.	*	1	2315	280	.00	.00	.00	0.
1	1050	131	.00	.00	.00	0.	*	1	2320	281	.00	.00	.00	0.
1	1055	132	.00	.00	.00	0.	*	1	2325	282	.00	.00	.00	0.
1	1100	133	.00	.00	.00	0.	*	1	2330	283	.00	.00	.00	0.
1	1105	134	.00	.00	.00	0.	*	1	2335	284	.00	.00	.00	0.
1	1110	135	.00	.00	.00	0.	*	1	2340	285	.00	.00	.00	0.
1	1115	136	.00	.00	.00	0.	*	1	2345	286	.00	.00	.00	0.
1	1120	137	.00	.00	.00	0.	*	1	2350	287	.00	.00	.00	0.
1	1125	138	.00	.00	.00	0.	*	1	2355	288	.00	.00	.00	0.
1	1130	139	.00	.00	.00	0.	*	2	0000	289	.00	.00	.00	0.
1	1135	140	.00	.00	.00	0.	*	2	0005	290	.00	.00	.00	0.
1	1140	141	.00	.00	.00	0.	*	2	0010	291	.00	.00	.00	0.
1	1145	142	.00	.00	.00	0.	*	2	0015	292	.00	.00	.00	0.
1	1150	143	.00	.00	.00	0.	*	2	0020	293	.00	.00	.00	0.
1	1155	144	.00	.00	.00	0.	*	2	0025	294	.00	.00	.00	0.
1	1200	145	.00	.00	.00	0.	*	2	0030	295	.00	.00	.00	0.
1	1205	146	.00	.00	.00	0.	*	2	0035	296	.00	.00	.00	0.
1	1210	147	.00	.00	.00	0.	*	2	0040	297	.00	.00	.00	0.
1	1215	148	.00	.00	.00	0.	*	2	0045	298	.00	.00	.00	0.
1	1220	149	.00	.00	.00	0.	*	2	0050	299	.00	.00	.00	0.
1	1225	150	.00	.00	.00	0.	*	2	0055	300	.00	.00	.00	0.
							*							

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TOTAL RAINFALL = 1.99, TOTAL LOSS = 1.44, TOTAL EXCESS = .55

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
9.	4.58		3.	1.	1.	1.
		(INCHES)	.544	.544	.544	.544
		(AC-FT)	1.	1.	1.	1.

CUMULATIVE AREA = .04 SQ MI

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          *            *
127 KK    *   Node16   *
          *            *
          **************
                    confluence g1-g2-g3-g4 and phase 2

130 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          2  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL         0.  HYDROGRAPH PLOT SCALE

129 HC          HYDROGRAPH COMBINATION
                     ICOMP          2  NUMBER OF HYDROGRAPHS TO COMBINE
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HYDROGRAPH AT STATION Node16
SUM OF 2 HYDROGRAPHS

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	52.	1		1230	151	7.	1		1845	226	0.
1		0005	2	0.	1		0620	77	49.	1		1235	152	7.	1		1850	227	0.
1		0010	3	0.	1		0625	78	46.	1		1240	153	6.	1		1855	228	0.
1		0015	4	0.	1		0630	79	43.	1		1245	154	6.	1		1900	229	0.
1		0020	5	0.	1		0635	80	41.	1		1250	155	6.	1		1905	230	0.
1		0025	6	0.	1		0640	81	39.	1		1255	156	6.	1		1910	231	0.
1		0030	7	0.	1		0645	82	37.	1		1300	157	6.	1		1915	232	0.
1		0035	8	0.	1		0650	83	35.	1		1305	158	6.	1		1920	233	0.
1		0040	9	0.	1		0655	84	34.	1		1310	159	6.	1		1925	234	0.
1		0045	10	0.	1		0700	85	32.	1		1315	160	6.	1		1930	235	0.
1		0050	11	0.	1		0705	86	31.	1		1320	161	6.	1		1935	236	0.
1		0055	12	0.	1		0710	87	29.	1		1325	162	5.	1		1940	237	0.
1		0100	13	0.	1		0715	88	28.	1		1330	163	5.	1		1945	238	0.
1		0105	14	0.	1		0720	89	27.	1		1335	164	5.	1		1950	239	0.
1		0110	15	1.	1		0725	90	25.	1		1340	165	5.	1		1955	240	0.
1		0115	16	1.	1		0730	91	24.	1		1345	166	5.	1		2000	241	0.

1	0120	17	1.	*	1	0735	92	23.	*	1	1350	167	5.	*	1	2005	242	0.
1	0125	18	1.	*	1	0740	93	22.	*	1	1355	168	5.	*	1	2010	243	0.
1	0130	19	1.	*	1	0745	94	21.	*	1	1400	169	5.	*	1	2015	244	0.
1	0135	20	1.	*	1	0750	95	21.	*	1	1405	170	5.	*	1	2020	245	0.
1	0140	21	1.	*	1	0755	96	20.	*	1	1410	171	5.	*	1	2025	246	0.
1	0145	22	1.	*	1	0800	97	19.	*	1	1415	172	4.	*	1	2030	247	0.
1	0150	23	1.	*	1	0805	98	19.	*	1	1420	173	4.	*	1	2035	248	0.
1	0155	24	1.	*	1	0810	99	18.	*	1	1425	174	4.	*	1	2040	249	0.
1	0200	25	1.	*	1	0815	100	18.	*	1	1430	175	4.	*	1	2045	250	0.
1	0205	26	1.	*	1	0820	101	18.	*	1	1435	176	4.	*	1	2050	251	0.
1	0210	27	1.	*	1	0825	102	17.	*	1	1440	177	4.	*	1	2055	252	0.
1	0215	28	2.	*	1	0830	103	17.	*	1	1445	178	4.	*	1	2100	253	0.
1	0220	29	2.	*	1	0835	104	16.	*	1	1450	179	4.	*	1	2105	254	0.
1	0225	30	2.	*	1	0840	105	16.	*	1	1455	180	4.	*	1	2110	255	0.
1	0230	31	2.	*	1	0845	106	15.	*	1	1500	181	3.	*	1	2115	256	0.
1	0235	32	2.	*	1	0850	107	15.	*	1	1505	182	3.	*	1	2120	257	0.
1	0240	33	2.	*	1	0855	108	15.	*	1	1510	183	3.	*	1	2125	258	0.
1	0245	34	2.	*	1	0900	109	14.	*	1	1515	184	3.	*	1	2130	259	0.
1	0250	35	2.	*	1	0905	110	14.	*	1	1520	185	3.	*	1	2135	260	0.
1	0255	36	2.	*	1	0910	111	14.	*	1	1525	186	3.	*	1	2140	261	0.
1	0300	37	2.	*	1	0915	112	13.	*	1	1530	187	2.	*	1	2145	262	0.
1	0305	38	2.	*	1	0920	113	13.	*	1	1535	188	2.	*	1	2150	263	0.
1	0310	39	2.	*	1	0925	114	13.	*	1	1540	189	2.	*	1	2155	264	0.
1	0315	40	2.	*	1	0930	115	12.	*	1	1545	190	2.	*	1	2200	265	0.
1	0320	41	2.	*	1	0935	116	12.	*	1	1550	191	2.	*	1	2205	266	0.
1	0325	42	2.	*	1	0940	117	12.	*	1	1555	192	2.	*	1	2210	267	0.
1	0330	43	2.	*	1	0945	118	12.	*	1	1600	193	2.	*	1	2215	268	0.
1	0335	44	3.	*	1	0950	119	11.	*	1	1605	194	2.	*	1	2220	269	0.
1	0340	45	3.	*	1	0955	120	11.	*	1	1610	195	2.	*	1	2225	270	0.
1	0345	46	3.	*	1	1000	121	11.	*	1	1615	196	1.	*	1	2230	271	0.
1	0350	47	4.	*	1	1005	122	10.	*	1	1620	197	1.	*	1	2235	272	0.
1	0355	48	5.	*	1	1010	123	10.	*	1	1625	198	1.	*	1	2240	273	0.
1	0400	49	7.	*	1	1015	124	10.	*	1	1630	199	1.	*	1	2245	274	0.
1	0405	50	10.	*	1	1020	125	10.	*	1	1635	200	1.	*	1	2250	275	0.
1	0410	51	15.	*	1	1025	126	9.	*	1	1640	201	1.	*	1	2255	276	0.
1	0415	52	25.	*	1	1030	127	9.	*	1	1645	202	1.	*	1	2300	277	0.
1	0420	53	39.	*	1	1035	128	9.	*	1	1650	203	1.	*	1	2305	278	0.
1	0425	54	56.	*	1	1040	129	9.	*	1	1655	204	1.	*	1	2310	279	0.
1	0430	55	74.	*	1	1045	130	9.	*	1	1700	205	1.	*	1	2315	280	0.
1	0435	56	92.	*	1	1050	131	9.	*	1	1705	206	1.	*	1	2320	281	0.
1	0440	57	106.	*	1	1055	132	9.	*	1	1710	207	1.	*	1	2325	282	0.
1	0445	58	114.	*	1	1100	133	9.	*	1	1715	208	1.	*	1	2330	283	0.
1	0450	59	117.	*	1	1105	134	8.	*	1	1720	209	1.	*	1	2335	284	0.
1	0455	60	117.	*	1	1110	135	8.	*	1	1725	210	1.	*	1	2340	285	0.
1	0500	61	115.	*	1	1115	136	8.	*	1	1730	211	1.	*	1	2345	286	0.
1	0505	62	112.	*	1	1120	137	8.	*	1	1735	212	1.	*	1	2350	287	0.
1	0510	63	108.	*	1	1125	138	8.	*	1	1740	213	1.	*	1	2355	288	0.
1	0515	64	104.	*	1	1130	139	8.	*	1	1745	214	1.	*	2	0000	289	0.
1	0520	65	99.	*	1	1135	140	8.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	95.	*	1	1140	141	8.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	90.	*	1	1145	142	8.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	84.	*	1	1150	143	7.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	79.	*	1	1155	144	7.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	74.	*	1	1200	145	7.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	69.	*	1	1205	146	7.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	65.	*	1	1210	147	7.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	62.	*	1	1215	148	7.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	58.	*	1	1220	149	7.	*	1	1835	224	0.	*	2	0050	299	0.

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  1     0610   75       55.   *    1     1225  150        7.   *    1     1840  225        0.   *    2     0055  300        0.
                                *                              *                                   *
*****************************************************************************************************************************

PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                     6-HR       24-HR       72-HR     24.92-HR
 (CFS)       (HR)
                        (CFS)
   117.      4.83                    43.         12.         12.          12.
                      (INCHES)      .524        .613        .613         .613
                       (AC-FT)       21.         25.         25.          25.

                       CUMULATIVE AREA =     .76 SQ MI


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          *            *
131 KK    *    Route   *     water through phase 2 channel thru existing 60' RCPs
          *            *
          **************

137 KO          OUTPUT CONTROL VARIABLES
                      IPRNT           2  PRINT CONTROL
                      IPLOT           0  PLOT CONTROL
                      QSCAL          0.  HYDROGRAPH PLOT SCALE

             HYDROGRAPH ROUTING DATA

132 RS          STORAGE ROUTING
                      NSTPS           1  NUMBER OF SUBREACHES
                       ITYP        ELEV  TYPE OF INITIAL CONDITION
                     RSVRIC      974.00  INITIAL CONDITION
                          X         .00 WORKING R AND D COEFFICIENT

133 SV            STORAGE          .0       3.6       7.3      12.1      18.2      25.5      34.0      43.7      54.7

134 SE          ELEVATION      974.00    977.00    978.00    979.00    980.00    981.00    982.00    983.00    984.00

135 SQ          DISCHARGE         0.        0.       15.       41.       90.      151.      220.      287.      345.

136 SE          ELEVATION      974.00    977.00    978.00    979.00    980.00    981.00    982.00    983.00    984.00

                                                          ***

                                          COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

          STORAGE        .00      3.64      7.29     12.14     18.22     25.50     34.00     43.72     54.65
          OUTFLOW        .00       .00     14.90     41.02     90.10    151.37    220.14    286.54    345.40
        ELEVATION     974.00    977.00    978.00    979.00    980.00    981.00    982.00    983.00    984.00

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                                          HYDROGRAPH AT STATION   Route
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DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	974.0	1		0820	101	32.	10.4	978.6	1		1640	201	6.	5.0	977.4
1		0005	2	0.	.0	974.0	1		0825	102	31.	10.3	978.6	1		1645	202	5.	5.0	977.4
1		0010	3	0.	.0	974.0	1		0830	103	31.	10.2	978.6	1		1650	203	5.	5.0	977.4
1		0015	4	0.	.0	974.0	1		0835	104	30.	10.1	978.6	1		1655	204	5.	4.9	977.4
1		0020	5	0.	.0	974.0	1		0840	105	29.	10.0	978.6	1		1700	205	5.	4.9	977.3
1		0025	6	0.	.0	974.0	1		0845	106	29.	9.9	978.5	1		1705	206	5.	4.9	977.3
1		0030	7	0.	.0	974.0	1		0850	107	28.	9.8	978.5	1		1710	207	5.	4.8	977.3
1		0035	8	0.	.0	974.0	1		0855	108	28.	9.7	978.5	1		1715	208	5.	4.8	977.3
1		0040	9	0.	.0	974.0	1		0900	109	27.	9.6	978.5	1		1720	209	5.	4.8	977.3
1		0045	10	0.	.0	974.0	1		0905	110	27.	9.5	978.5	1		1725	210	5.	4.8	977.3
1		0050	11	0.	.0	974.0	1		0910	111	27.	9.4	978.4	1		1730	211	4.	4.7	977.3
1		0055	12	0.	.0	974.0	1		0915	112	26.	9.4	978.4	1		1735	212	4.	4.7	977.3
1		0100	13	0.	.0	974.0	1		0920	113	26.	9.3	978.4	1		1740	213	4.	4.7	977.3
1		0105	14	0.	.0	974.0	1		0925	114	25.	9.2	978.4	1		1745	214	4.	4.6	977.3
1		0110	15	0.	.0	974.0	1		0930	115	25.	9.1	978.4	1		1750	215	4.	4.6	977.3
1		0115	16	0.	.0	974.0	1		0935	116	24.	9.0	978.4	1		1755	216	4.	4.6	977.3
1		0120	17	0.	.0	974.0	1		0940	117	24.	8.9	978.3	1		1800	217	4.	4.6	977.3
1		0125	18	0.	.0	974.0	1		0945	118	23.	8.8	978.3	1		1805	218	4.	4.6	977.3
1		0130	19	0.	.0	974.0	1		0950	119	23.	8.8	978.3	1		1810	219	4.	4.5	977.2
1		0135	20	0.	.0	974.0	1		0955	120	22.	8.7	978.3	1		1815	220	4.	4.5	977.2
1		0140	21	0.	.0	974.0	1		1000	121	22.	8.6	978.3	1		1820	221	3.	4.5	977.2
1		0145	22	0.	.1	974.0	1		1005	122	22.	8.5	978.3	1		1825	222	3.	4.5	977.2
1		0150	23	0.	.1	974.0	1		1010	123	21.	8.5	978.2	1		1830	223	3.	4.4	977.2
1		0155	24	0.	.1	974.1	1		1015	124	21.	8.4	978.2	1		1835	224	3.	4.4	977.2
1		0200	25	0.	.1	974.1	1		1020	125	20.	8.3	978.2	1		1840	225	3.	4.4	977.2
1		0205	26	0.	.1	974.1	1		1025	126	20.	8.2	978.2	1		1845	226	3.	4.4	977.2
1		0210	27	0.	.1	974.1	1		1030	127	20.	8.2	978.2	1		1850	227	3.	4.4	977.2
1		0215	28	0.	.1	974.1	1		1035	128	19.	8.1	978.2	1		1855	228	3.	4.3	977.2
1		0220	29	0.	.1	974.1	1		1040	129	19.	8.0	978.2	1		1900	229	3.	4.3	977.2
1		0225	30	0.	.1	974.1	1		1045	130	18.	8.0	978.1	1		1905	230	3.	4.3	977.2
1		0230	31	0.	.1	974.1	1		1050	131	18.	7.9	978.1	1		1910	231	3.	4.3	977.2
1		0235	32	0.	.2	974.1	1		1055	132	18.	7.8	978.1	1		1915	232	3.	4.3	977.2
1		0240	33	0.	.2	974.1	1		1100	133	17.	7.8	978.1	1		1920	233	3.	4.3	977.2
1		0245	34	0.	.2	974.1	1		1105	134	17.	7.7	978.1	1		1925	234	2.	4.2	977.2
1		0250	35	0.	.2	974.2	1		1110	135	17.	7.6	978.1	1		1930	235	2.	4.2	977.2
1		0255	36	0.	.2	974.2	1		1115	136	17.	7.6	978.1	1		1935	236	2.	4.2	977.2
1		0300	37	0.	.2	974.2	1		1120	137	16.	7.5	978.0	1		1940	237	2.	4.2	977.2
1		0305	38	0.	.2	974.2	1		1125	138	16.	7.5	978.0	1		1945	238	2.	4.2	977.1
1		0310	39	0.	.2	974.2	1		1130	139	16.	7.4	978.0	1		1950	239	2.	4.2	977.1
1		0315	40	0.	.3	974.2	1		1135	140	15.	7.4	978.0	1		1955	240	2.	4.2	977.1
1		0320	41	0.	.3	974.2	1		1140	141	15.	7.3	978.0	1		2000	241	2.	4.1	977.1
1		0325	42	0.	.3	974.2	1		1145	142	15.	7.3	978.0	1		2005	242	2.	4.1	977.1
1		0330	43	0.	.3	974.3	1		1150	143	15.	7.2	978.0	1		2010	243	2.	4.1	977.1
1		0335	44	0.	.3	974.3	1		1155	144	14.	7.2	978.0	1		2015	244	2.	4.1	977.1
1		0340	45	0.	.3	974.3	1		1200	145	14.	7.1	978.0	1		2020	245	2.	4.1	977.1
1		0345	46	0.	.4	974.3	1		1205	146	14.	7.1	977.9	1		2025	246	2.	4.1	977.1
1		0350	47	0.	.4	974.3	1		1210	147	14.	7.0	977.9	1		2030	247	2.	4.1	977.1
1		0355	48	0.	.4	974.3	1		1215	148	14.	7.0	977.9	1		2035	248	2.	4.1	977.1
1		0400	49	0.	.5	974.4	1		1220	149	13.	6.9	977.9	1		2040	249	2.	4.0	977.1
1		0405	50	0.	.5	974.4	1		1225	150	13.	6.9	977.9	1		2045	250	2.	4.0	977.1
1		0410	51	0.	.6	974.5	1		1230	151	13.	6.8	977.9	1		2050	251	2.	4.0	977.1
1		0415	52	0.	.7	974.6	1		1235	152	13.	6.8	977.9	1		2055	252	2.	4.0	977.1
1		0420	53	0.	1.0	974.8	1		1240	153	13.	6.8	977.9	1		2100	253	1.	4.0	977.1

1	0425	54	0.	1.3	975.1	*	1	1245	154	13.	6.7	977.8	*	1	2105	254	1.	4.0	977.1
1	0430	55	0.	1.7	975.4	*	1	1250	155	12.	6.7	977.8	*	1	2110	255	1.	4.0	977.1
1	0435	56	0.	2.3	975.9	*	1	1255	156	12.	6.6	977.8	*	1	2115	256	1.	4.0	977.1
1	0440	57	0.	3.0	976.5	*	1	1300	157	12.	6.6	977.8	*	1	2120	257	1.	4.0	977.1
1	0445	58	0.	3.7	977.0	*	1	1305	158	12.	6.5	977.8	*	1	2125	258	1.	4.0	977.1
1	0450	59	4.	4.5	977.2	*	1	1310	159	12.	6.5	977.8	*	1	2130	259	1.	3.9	977.1
1	0455	60	7.	5.3	977.5	*	1	1315	160	12.	6.5	977.8	*	1	2135	260	1.	3.9	977.1
1	0500	61	10.	6.0	977.7	*	1	1320	161	11.	6.4	977.8	*	1	2140	261	1.	3.9	977.1
1	0505	62	13.	6.7	977.8	*	1	1325	162	11.	6.4	977.8	*	1	2145	262	1.	3.9	977.1
1	0510	63	15.	7.4	978.0	*	1	1330	163	11.	6.3	977.7	*	1	2150	263	1.	3.9	977.1
1	0515	64	19.	8.0	978.1	*	1	1335	164	11.	6.3	977.7	*	1	2155	264	1.	3.9	977.1
1	0520	65	22.	8.6	978.3	*	1	1340	165	11.	6.3	977.7	*	1	2200	265	1.	3.9	977.1
1	0525	66	25.	9.1	978.4	*	1	1345	166	11.	6.2	977.7	*	1	2205	266	1.	3.9	977.1
1	0530	67	27.	9.5	978.5	*	1	1350	167	10.	6.2	977.7	*	1	2210	267	1.	3.9	977.1
1	0535	68	29.	9.9	978.5	*	1	1355	168	10.	6.2	977.7	*	1	2215	268	1.	3.9	977.1
1	0540	69	31.	10.3	978.6	*	1	1400	169	10.	6.1	977.7	*	1	2220	269	1.	3.9	977.1
1	0545	70	33.	10.6	978.7	*	1	1405	170	10.	6.1	977.7	*	1	2225	270	1.	3.9	977.1
1	0550	71	34.	10.9	978.7	*	1	1410	171	10.	6.0	977.7	*	1	2230	271	1.	3.9	977.1
1	0555	72	35.	11.1	978.8	*	1	1415	172	10.	6.0	977.6	*	1	2235	272	1.	3.9	977.1
1	0600	73	36.	11.3	978.8	*	1	1420	173	10.	6.0	977.6	*	1	2240	273	1.	3.9	977.1
1	0605	74	37.	11.4	978.9	*	1	1425	174	9.	5.9	977.6	*	1	2245	274	1.	3.8	977.1
1	0610	75	38.	11.6	978.9	*	1	1430	175	9.	5.9	977.6	*	1	2250	275	1.	3.8	977.1
1	0615	76	39.	11.7	978.9	*	1	1435	176	9.	5.9	977.6	*	1	2255	276	1.	3.8	977.1
1	0620	77	39.	11.8	978.9	*	1	1440	177	9.	5.8	977.6	*	1	2300	277	1.	3.8	977.1
1	0625	78	39.	11.8	978.9	*	1	1445	178	9.	5.8	977.6	*	1	2305	278	1.	3.8	977.1
1	0630	79	39.	11.8	978.9	*	1	1450	179	9.	5.8	977.6	*	1	2310	279	1.	3.8	977.0
1	0635	80	40.	11.9	978.9	*	1	1455	180	9.	5.7	977.6	*	1	2315	280	1.	3.8	977.0
1	0640	81	40.	11.9	978.9	*	1	1500	181	8.	5.7	977.6	*	1	2320	281	1.	3.8	977.0
1	0645	82	39.	11.9	978.9	*	1	1505	182	8.	5.7	977.6	*	1	2325	282	1.	3.8	977.0
1	0650	83	39.	11.8	978.9	*	1	1510	183	8.	5.6	977.5	*	1	2330	283	1.	3.8	977.0
1	0655	84	39.	11.8	978.9	*	1	1515	184	8.	5.6	977.5	*	1	2335	284	1.	3.8	977.0
1	0700	85	39.	11.8	978.9	*	1	1520	185	8.	5.6	977.5	*	1	2340	285	1.	3.8	977.0
1	0705	86	39.	11.7	978.9	*	1	1525	186	8.	5.5	977.5	*	1	2345	286	1.	3.8	977.0
1	0710	87	38.	11.6	978.9	*	1	1530	187	8.	5.5	977.5	*	1	2350	287	1.	3.8	977.0
1	0715	88	38.	11.6	978.9	*	1	1535	188	7.	5.5	977.5	*	1	2355	288	1.	3.8	977.0
1	0720	89	38.	11.5	978.9	*	1	1540	189	7.	5.4	977.5	*	2	0000	289	1.	3.8	977.0
1	0725	90	37.	11.4	978.9	*	1	1545	190	7.	5.4	977.5	*	2	0005	290	1.	3.8	977.0
1	0730	91	37.	11.3	978.8	*	1	1550	191	7.	5.3	977.5	*	2	0010	291	1.	3.8	977.0
1	0735	92	36.	11.3	978.8	*	1	1555	192	7.	5.3	977.5	*	2	0015	292	1.	3.8	977.0
1	0740	93	36.	11.2	978.8	*	1	1600	193	7.	5.3	977.4	*	2	0020	293	0.	3.8	977.0
1	0745	94	35.	11.1	978.8	*	1	1605	194	7.	5.2	977.4	*	2	0025	294	0.	3.8	977.0
1	0750	95	35.	11.0	978.8	*	1	1610	195	6.	5.2	977.4	*	2	0030	295	0.	3.8	977.0
1	0755	96	34.	10.9	978.7	*	1	1615	196	6.	5.2	977.4	*	2	0035	296	0.	3.8	977.0
1	0800	97	34.	10.8	978.7	*	1	1620	197	6.	5.1	977.4	*	2	0040	297	0.	3.7	977.0
1	0805	98	33.	10.7	978.7	*	1	1625	198	6.	5.1	977.4	*	2	0045	298	0.	3.7	977.0
1	0810	99	33.	10.6	978.7	*	1	1630	199	6.	5.1	977.4	*	2	0050	299	0.	3.7	977.0
1	0815	100	32.	10.5	978.7	*	1	1635	200	6.	5.0	977.4	*	2	0055	300	0.	3.7	977.0
						*							*						

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)					
		(CFS)				
40.	6.67		29.	11.	10.	10.
		(INCHES)	.361	.521	.521	.521
		(AC-FT)	15.	21.	21.	21.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
12.	6.58	10.	6.	5.	5.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
978.94	6.67	978.56	977.18	977.07	977.07

CUMULATIVE AREA = .76 SQ MI

RUNOFF SUMMARY
FLOW IN CUBIC FEET PER SECOND
TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD 6-HOUR	24-HOUR	72-HOUR	BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
HYDROGRAPH AT	DEVELO	97.	4.67	28.	7.	7.	.41		
ROUTED TO	Node17	97.	4.67	28.	7.	7.	.41	79.51	4.67
ROUTED TO	Node10	97.	4.75	28.	7.	7.	.41	7.94	4.75
HYDROGRAPH AT	DEVELO	25.	4.25	4.	1.	1.	.04		
ROUTED TO	Node7	0.	.08	0.	0.	0.	.04		
2 COMBINED AT	Node11	97.	4.75	28.	7.	7.	.45		
ROUTED TO	Node10	96.	4.83	28.	7.	7.	.45	7.94	4.83
HYDROGRAPH AT	DEVELO	7.	4.17	1.	0.	0.	.01		
ROUTED TO	Node8	0.	.08	0.	0.	0.	.01		
2 COMBINED AT	Node13	96.	4.83	28.	7.	7.	.46		
ROUTED TO	Node10	96.	4.83	28.	7.	7.	.46	7.93	4.83
HYDROGRAPH AT	DEVELO	104.	4.33	19.	5.	5.	.25		
ROUTED TO	Node9	14.	5.75	12.	5.	5.	.25	8.96	5.75
2 COMBINED AT	Node15	108.	4.92	40.	12.	11.	.71		
HYDROGRAPH AT	Develo	9.	4.58	3.	1.	1.	.04		

2 COMBINED AT									
	Node16	117.	4.83	43.	12.	12.	.76		
ROUTED TO									
	Route	40.	6.67	29.	11.	10.	.76		
								978.94	6.67

*** NORMAL END OF HEC-1 ***

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*                                      *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)  *
*            SEPTEMBER 1990            *
*             VERSION 4.0              *
*                                      *
* RUN DATE  10/16/1997  TIME  09:54:22 *
*                                      *
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*                                      *
*   U.S. ARMY CORPS OF ENGINEERS       *
*   HYDROLOGIC ENGINEERING CENTER      *
*         609 SECOND STREET            *
*      DAVIS, CALIFORNIA 95616         *
*          (916) 756-1104              *
*                                      *
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X     X  XXXXXXX  XXXXX          X
X     X  X       X     X        XX
X     X  X       X              X
XXXXXXX  XXXX    X       XXXXX  X
X     X  X       X              X
X     X  X       X     X        X
X     X  XXXXXXX  XXXXX        XXX
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THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

MODEL #5 - Phase 2 Proposed Channel 100-Year

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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  1           ID       model #5
  2           IT       5                    300
  3           IO       2

  4           KK  DEVELOP RAINFALL FOR BASIN G1
  5           KM   6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
  6           KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
  7           KM  L = 1.17  Kb = .050  Adj. Slope =   21.3
  8           BA    .413
  9           PB   2.961
 10           IN      15
 11           PC    .000    .008    .016    .025    .033    .041    .050    .058    .066    .074
 12           PC    .087    .099    .119    .138    .216    .377    .834    .911    .931    .950
 13           PC    .962    .973    .983    .991   1.000
 14           LG    .430    .255   3.500    .515   7.000
 15           UC    .887    .616
 16           UA       0       5      16      30      65      77      84      90      94      97
 17           UA     100
 18           KO       2

 19           KK  Node17
 20           KM  basin routing through transfer drain culverts
 21           RS       1    STOR       0       0
 22           SV       0     .02     .11     .20    1.79    3.38    7.57   13.81
 23           SE   77.82      78      79      80      81      82      83      84
 24           SL   77.82   15.70      .6      .5
 25           SS   83.80      15     2.7     1.5
 26           KO       2

 27           KK  Node10
 28           KM  Route water from culverts to middle of subdivision
 29           RS       1    STOR       0       0
 30           RC    .035    .035    .035     650   .0022      15
 31           RX       0      20     120   136.6   146.6   162.2   262.2   282.2
 32           RY      15      11      10    5.85    5.85      10      11      15
 33           KO       2

 34           KK  DEVELOPE RAINFALL FOR SUBBASIN G2
 35           KM   6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
 36           KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
 37           KM  L =  .41  Kb = .064  Adj. Slope =   48.9
 38           BA    .040
 39           PB   2.961
 40           LG    .430    .255   3.500   0.515  30.000
 41           UC    .458    .477
 42           UA       0       5      16      30      65      77      84      90      94      97
 43           UA     100
 44           KO       2

 45           KK  Node7
 46           KM  Route flow through basin to remove developed area storage
 47           RS       1    STOR       0       0
 48           SV       0    2.13    2.15    2.16    2.17    2.18    2.19    2.20    2.25     2.5
 49           SV    2.75
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50 sq 0 0 10 15 20 25 30 35 40 45

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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  51          SQ      50
  52          KO       2

  53          KK  Node11
  54          KM  conflunce g1 and g2
  55          HC       2
  56          KO       2

  57          KK  Node10
  58          KM  Route water from culverts to middle of subdivision
  59          RS       1    STOR       0       0
  60          RC    .035    .035    .035     650   .0022      15
  61          RX       0      20     120   136.6   146.6   162.2   262.2   282.2
  62          RY      15      11      10    5.85    5.85      10      11      15
  63          KO       2

  64          KK  DEVELOPE RAINFALL FOR G3
  65          KM   6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
  66          KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
  67          KM  L =  .30  Kb = .072  Adj. Slope =   60.9
  68          BA    .010
  69          PB   2.961
  70          LG    .430    .255   3.500    .515  30.000
  71          UC    .296    .498
  72          UA       0       5      16      30      65      77      84      90      94      97
  73          UA     100
  74          KO       2

  75          KK  Node8
  76          KM  Route area through subdivision to remove retention storage
  77          RS       1    STOR       0       0
  78          SV       0     .58     .60     .61     .62     .63     .64
  79          SQ       0       0      10      20      30      40      50
  80          KO       2

  81          KK  Node13
  82          KM  confluence g1-g2 with g3
  83          KO       2
  84          HC       2
  85          KO       2

  86          KK  Node10
  87          KM  Route water from  middle of subdivision to old mcdowell
  88          RS       1    STOR       0       0
  89          RC    .035    .035    .035     650   .0022      15
  90          RX       0      20     120   136.6   146.6   162.2   262.2   282.2
  91          RY      15      11      10    5.85    5.85      10      11      15
  92          KO       2

  93          KK  DEVELOP RAINFALL FOR SUBBASIN G4
  94          KM   6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
  95          KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
  96          KM  L =  .98  Kb = .064  Adj. Slope =   26.3
  97          BA    .252
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 99           LG    .430    .255   3.500    .515  10.470
100           UC    .742    .576
101           UA       0       5      16      30      65      77      84      90      94      97
102           UA     100
103           KO       2

104           KK  Node9
105           KM  Route water through detention basin to remove subdivision storage
106           RS       1    STOR       0       0
107           SV       0    7.58       8       9      10
108           SE       0      10      11      12      13
109           SL       0       1      .6      .5
110           SS      10      25     2.7     1.5
111           KO       2

112           KK  Node15
113           KM  confluence g1-g2-g3 with g4
114           HC       2
115           KO       2

116           KK  Develope rainfall for phase 2 area
117           KM   6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
118           KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
119           KM  L =  .072  Kb = .064  Adj. Slope =   9.9
120           BA    .043
121           PB   2.961
122           LG    .430    .255   3.500    .515   0.000
123           UC    .604    .485
124           UA       0       5      16      30      65      77      84      90      94      97
125           UA     100
126           KO       2

127           KK  Node16
128           KM  confluence g1-g2-g3-g4 and phase 2
129           HC       2
130           KO       2

131           KK   Route water through phase 2 channel thru existing 60 " rcps
132           RS       1    ELEV     974       0
133           SV       0    3.64    7.29   12.14   18.22   25.50   34.00   43.72   54.65
134           SE     974     977     978     979     980     981     982     983     984
135           SQ       0       0   14.90   41.02   90.10  151.37  220.14  286.54  345.40
136           SE     974     977     978     979     980     981     982     983     984
137           KO       2
138           ZZ
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*                                      *                    *                                      *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)  *                    *   U.S. ARMY CORPS OF ENGINEERS       *
*           SEPTEMBER 1990             *                    *   HYDROLOGIC ENGINEERING CENTER      *
*            VERSION 4.0               *                    *         609 SECOND STREET            *
*                                      *                    *      DAVIS, CALIFORNIA 95616         *
* RUN DATE  06/09/1998  TIME  14:12:44 *                    *          (916) 756-1104              *
*                                      *                    *                                      *
****************************************                    ****************************************


                          model #5

  3 IO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

    IT          HYDROGRAPH TIME DATA
                       NMIN          5  MINUTES IN COMPUTATION INTERVAL
                      IDATE      1   0  STARTING DATE
                      ITIME       0000  STARTING TIME
                         NQ        300  NUMBER OF HYDROGRAPH ORDINATES
                     NDDATE      2   0  ENDING DATE
                     NDTIME       0055  ENDING TIME
                     ICENT         19  CENTURY MARK

                 COMPUTATION INTERVAL     .08 HOURS
                      TOTAL TIME BASE   24.92 HOURS

         ENGLISH UNITS
             DRAINAGE AREA         SQUARE MILES
             PRECIPITATION DEPTH   INCHES
             LENGTH, ELEVATION     FEET
             FLOW                  CUBIC FEET PER SECOND
             STORAGE VOLUME        ACRE-FEET
             SURFACE AREA          ACRES
             TEMPERATURE           DEGREES FAHRENHEIT


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


          **************
          *            *
  4 KK    *   DEVELO   *     P RAINFALL FOR BASIN G1
          *            *
          **************
                       6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
                       THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
                      L = 1.17  Kb = .050  Adj. Slope =   21.3

 10 IN          TIME DATA FOR INPUT TIME SERIES
                      JXMIN         15  TIME INTERVAL IN MINUTES
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                JXDATE      1    0  STARTING DATE
                JXTIME           0  STARTING TIME

18 KO        OUTPUT CONTROL VARIABLES
                IPRNT           2  PRINT CONTROL
                IPLOT           0  PLOT CONTROL
                QSCAL          0.  HYDROGRAPH PLOT SCALE

           SUBBASIN RUNOFF DATA

 8 BA        SUBBASIN CHARACTERISTICS
                TAREA         .41  SUBBASIN AREA

             PRECIPITATION DATA

 9 PB           STORM        2.96  BASIN TOTAL PRECIPITATION

11 PI          INCREMENTAL PRECIPITATION PATTERN
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .01       .01       .01       .01       .01       .01       .03
                .03       .03       .05       .05       .05       .15       .15       .15       .03       .03
                .03       .01       .01       .01       .01       .01       .01       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00

14 LG        GREEN AND AMPT LOSS RATE
                STRTL         .43  STARTING LOSS
                  DTH         .25  MOISTURE DEFICIT
                 PSIF        3.50  WETTING FRONT SUCTION
                XKSAT         .51  HYDRAULIC CONDUCTIVITY
                RTIMP        7.00  PERCENT IMPERVIOUS AREA

15 UC        CLARK UNITGRAPH
                   TC         .89  TIME OF CONCENTRATION
                    R         .62  STORAGE COEFFICIENT

16 UA        ACCUMULATED-AREA VS. TIME,  11 ORDINATES
                  .0       5.0      16.0      30.0      65.0      77.0      84.0      90.0      94.0      97.0
               100.0

                                          ***

                                   UNIT HYDROGRAPH PARAMETERS
                             CLARK   TC=   .89 HR,       R=   .62 HR
                            SNYDER   TP=   .50 HR,      CP=   .46

                                     UNIT HYDROGRAPH
                                44 END-OF-PERIOD ORDINATES
          10.       38.       79.      154.      228.      249.      246.      237.      223.      207.
         190.      170.      148.      129.      113.       99.       86.       75.       66.       57.
          50.       44.       38.       33.       29.       25.       22.       19.       17.       15.
          13.       11.       10.        9.        8.        7.        6.        5.        4.        4.
           3.        3.        3.        2.
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HYDROGRAPH AT STATION DEVELO

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1		0000	1	.00	.00	.00	0.	1		1230	151	.00	.00	.00	0.
1		0005	2	.01	.01	.00	0.	1		1235	152	.00	.00	.00	0.
1		0010	3	.01	.01	.00	0.	1		1240	153	.00	.00	.00	0.
1		0015	4	.01	.01	.00	0.	1		1245	154	.00	.00	.00	0.
1		0020	5	.01	.01	.00	0.	1		1250	155	.00	.00	.00	0.
1		0025	6	.01	.01	.00	0.	1		1255	156	.00	.00	.00	0.
1		0030	7	.01	.01	.00	0.	1		1300	157	.00	.00	.00	0.
1		0035	8	.01	.01	.00	1.	1		1305	158	.00	.00	.00	0.
1		0040	9	.01	.01	.00	1.	1		1310	159	.00	.00	.00	0.
1		0045	10	.01	.01	.00	1.	1		1315	160	.00	.00	.00	0.
1		0050	11	.01	.01	.00	1.	1		1320	161	.00	.00	.00	0.
1		0055	12	.01	.01	.00	1.	1		1325	162	.00	.00	.00	0.
1		0100	13	.01	.01	.00	1.	1		1330	163	.00	.00	.00	0.
1		0105	14	.01	.01	.00	1.	1		1335	164	.00	.00	.00	0.
1		0110	15	.01	.01	.00	1.	1		1340	165	.00	.00	.00	0.
1		0115	16	.01	.01	.00	1.	1		1345	166	.00	.00	.00	0.
1		0120	17	.01	.01	.00	1.	1		1350	167	.00	.00	.00	0.
1		0125	18	.01	.01	.00	1.	1		1355	168	.00	.00	.00	0.
1		0130	19	.01	.01	.00	2.	1		1400	169	.00	.00	.00	0.
1		0135	20	.01	.01	.00	2.	1		1405	170	.00	.00	.00	0.
1		0140	21	.01	.01	.00	2.	1		1410	171	.00	.00	.00	0.
1		0145	22	.01	.01	.00	2.	1		1415	172	.00	.00	.00	0.
1		0150	23	.01	.01	.00	2.	1		1420	173	.00	.00	.00	0.
1		0155	24	.01	.01	.00	2.	1		1425	174	.00	.00	.00	0.
1		0200	25	.01	.01	.00	2.	1		1430	175	.00	.00	.00	0.
1		0205	26	.01	.01	.00	2.	1		1435	176	.00	.00	.00	0.
1		0210	27	.01	.01	.00	2.	1		1440	177	.00	.00	.00	0.
1		0215	28	.01	.01	.00	2.	1		1445	178	.00	.00	.00	0.
1		0220	29	.01	.01	.00	2.	1		1450	179	.00	.00	.00	0.
1		0225	30	.01	.01	.00	2.	1		1455	180	.00	.00	.00	0.
1		0230	31	.01	.01	.00	2.	1		1500	181	.00	.00	.00	0.
1		0235	32	.01	.01	.00	2.	1		1505	182	.00	.00	.00	0.
1		0240	33	.01	.01	.00	2.	1		1510	183	.00	.00	.00	0.
1		0245	34	.01	.01	.00	2.	1		1515	184	.00	.00	.00	0.
1		0250	35	.02	.02	.00	2.	1		1520	185	.00	.00	.00	0.
1		0255	36	.02	.02	.00	2.	1		1525	186	.00	.00	.00	0.
1		0300	37	.02	.02	.00	2.	1		1530	187	.00	.00	.00	0.
1		0305	38	.02	.02	.00	2.	1		1535	188	.00	.00	.00	0.
1		0310	39	.02	.02	.00	3.	1		1540	189	.00	.00	.00	0.
1		0315	40	.02	.02	.00	3.	1		1545	190	.00	.00	.00	0.
1		0320	41	.08	.07	.01	3.	1		1550	191	.00	.00	.00	0.
1		0325	42	.08	.07	.01	3.	1		1555	192	.00	.00	.00	0.
1		0330	43	.08	.07	.01	4.	1		1600	193	.00	.00	.00	0.
1		0335	44	.16	.15	.01	5.	1		1605	194	.00	.00	.00	0.
1		0340	45	.16	.12	.04	6.	1		1610	195	.00	.00	.00	0.
1		0345	46	.16	.10	.05	9.	1		1615	196	.00	.00	.00	0.
1		0350	47	.45	.09	.36	17.	1		1620	197	.00	.00	.00	0.
1		0355	48	.45	.09	.36	36.	1		1625	198	.00	.00	.00	0.
1		0400	49	.45	.08	.37	71.	1		1630	199	.00	.00	.00	0.
1		0405	50	.08	.07	.01	128.	1		1635	200	.00	.00	.00	0.
1		0410	51	.08	.07	.01	197.	1		1640	201	.00	.00	.00	0.
1		0415	52	.08	.07	.01	259.	1		1645	202	.00	.00	.00	0.

1	0420	53	.02	.02	.00	292.	*	1	1650	203	.00	.00	.00	0.
1	0425	54	.02	.02	.00	294.	*	1	1655	204	.00	.00	.00	0.
1	0430	55	.02	.02	.00	283.	*	1	1700	205	.00	.00	.00	0.
1	0435	56	.02	.02	.00	267.	*	1	1705	206	.00	.00	.00	0.
1	0440	57	.02	.02	.00	248.	*	1	1710	207	.00	.00	.00	0.
1	0445	58	.02	.02	.00	227.	*	1	1715	208	.00	.00	.00	0.
1	0450	59	.01	.01	.00	204.	*	1	1720	209	.00	.00	.00	0.
1	0455	60	.01	.01	.00	180.	*	1	1725	210	.00	.00	.00	0.
1	0500	61	.01	.01	.00	158.	*	1	1730	211	.00	.00	.00	0.
1	0505	62	.01	.01	.00	138.	*	1	1735	212	.00	.00	.00	0.
1	0510	63	.01	.01	.00	121.	*	1	1740	213	.00	.00	.00	0.
1	0515	64	.01	.01	.00	106.	*	1	1745	214	.00	.00	.00	0.
1	0520	65	.01	.01	.00	93.	*	1	1750	215	.00	.00	.00	0.
1	0525	66	.01	.01	.00	82.	*	1	1755	216	.00	.00	.00	0.
1	0530	67	.01	.01	.00	72.	*	1	1800	217	.00	.00	.00	0.
1	0535	68	.01	.01	.00	63.	*	1	1805	218	.00	.00	.00	0.
1	0540	69	.01	.01	.00	55.	*	1	1810	219	.00	.00	.00	0.
1	0545	70	.01	.01	.00	48.	*	1	1815	220	.00	.00	.00	0.
1	0550	71	.01	.01	.00	43.	*	1	1820	221	.00	.00	.00	0.
1	0555	72	.01	.01	.00	37.	*	1	1825	222	.00	.00	.00	0.
1	0600	73	.01	.01	.00	33.	*	1	1830	223	.00	.00	.00	0.
1	0605	74	.00	.00	.00	29.	*	1	1835	224	.00	.00	.00	0.
1	0610	75	.00	.00	.00	26.	*	1	1840	225	.00	.00	.00	0.
1	0615	76	.00	.00	.00	23.	*	1	1845	226	.00	.00	.00	0.
1	0620	77	.00	.00	.00	20.	*	1	1850	227	.00	.00	.00	0.
1	0625	78	.00	.00	.00	17.	*	1	1855	228	.00	.00	.00	0.
1	0630	79	.00	.00	.00	15.	*	1	1900	229	.00	.00	.00	0.
1	0635	80	.00	.00	.00	13.	*	1	1905	230	.00	.00	.00	0.
1	0640	81	.00	.00	.00	12.	*	1	1910	231	.00	.00	.00	0.
1	0645	82	.00	.00	.00	10.	*	1	1915	232	.00	.00	.00	0.
1	0650	83	.00	.00	.00	9.	*	1	1920	233	.00	.00	.00	0.
1	0655	84	.00	.00	.00	8.	*	1	1925	234	.00	.00	.00	0.
1	0700	85	.00	.00	.00	7.	*	1	1930	235	.00	.00	.00	0.
1	0705	86	.00	.00	.00	6.	*	1	1935	236	.00	.00	.00	0.
1	0710	87	.00	.00	.00	5.	*	1	1940	237	.00	.00	.00	0.
1	0715	88	.00	.00	.00	4.	*	1	1945	238	.00	.00	.00	0.
1	0720	89	.00	.00	.00	4.	*	1	1950	239	.00	.00	.00	0.
1	0725	90	.00	.00	.00	3.	*	1	1955	240	.00	.00	.00	0.
1	0730	91	.00	.00	.00	2.	*	1	2000	241	.00	.00	.00	0.
1	0735	92	.00	.00	.00	1.	*	1	2005	242	.00	.00	.00	0.
1	0740	93	.00	.00	.00	0.	*	1	2010	243	.00	.00	.00	0.
1	0745	94	.00	.00	.00	0.	*	1	2015	244	.00	.00	.00	0.
1	0750	95	.00	.00	.00	0.	*	1	2020	245	.00	.00	.00	0.
1	0755	96	.00	.00	.00	0.	*	1	2025	246	.00	.00	.00	0.
1	0800	97	.00	.00	.00	0.	*	1	2030	247	.00	.00	.00	0.
1	0805	98	.00	.00	.00	0.	*	1	2035	248	.00	.00	.00	0.
1	0810	99	.00	.00	.00	0.	*	1	2040	249	.00	.00	.00	0.
1	0815	100	.00	.00	.00	0.	*	1	2045	250	.00	.00	.00	0.
1	0820	101	.00	.00	.00	0.	*	1	2050	251	.00	.00	.00	0.
1	0825	102	.00	.00	.00	0.	*	1	2055	252	.00	.00	.00	0.
1	0830	103	.00	.00	.00	0.	*	1	2100	253	.00	.00	.00	0.
1	0835	104	.00	.00	.00	0.	*	1	2105	254	.00	.00	.00	0.
1	0840	105	.00	.00	.00	0.	*	1	2110	255	.00	.00	.00	0.
1	0845	106	.00	.00	.00	0.	*	1	2115	256	.00	.00	.00	0.
1	0850	107	.00	.00	.00	0.	*	1	2120	257	.00	.00	.00	0.
1	0855	108	.00	.00	.00	0.	*	1	2125	258	.00	.00	.00	0.
1	0900	109	.00	.00	.00	0.	*	1	2130	259	.00	.00	.00	0.
1	0905	110	.00	.00	.00	0.	*	1	2135	260	.00	.00	.00	0.

1	0910	111	.00	.00	.00	0.	*	1	2140	261	.00	.00	.00	0.
1	0915	112	.00	.00	.00	0.	*	1	2145	262	.00	.00	.00	0.
1	0920	113	.00	.00	.00	0.	*	1	2150	263	.00	.00	.00	0.
1	0925	114	.00	.00	.00	0.	*	1	2155	264	.00	.00	.00	0.
1	0930	115	.00	.00	.00	0.	*	1	2200	265	.00	.00	.00	0.
1	0935	116	.00	.00	.00	0.	*	1	2205	266	.00	.00	.00	0.
1	0940	117	.00	.00	.00	0.	*	1	2210	267	.00	.00	.00	0.
1	0945	118	.00	.00	.00	0.	*	1	2215	268	.00	.00	.00	0.
1	0950	119	.00	.00	.00	0.	*	1	2220	269	.00	.00	.00	0.
1	0955	120	.00	.00	.00	0.	*	1	2225	270	.00	.00	.00	0.
1	1000	121	.00	.00	.00	0.	*	1	2230	271	.00	.00	.00	0.
1	1005	122	.00	.00	.00	0.	*	1	2235	272	.00	.00	.00	0.
1	1010	123	.00	.00	.00	0.	*	1	2240	273	.00	.00	.00	0.
1	1015	124	.00	.00	.00	0.	*	1	2245	274	.00	.00	.00	0.
1	1020	125	.00	.00	.00	0.	*	1	2250	275	.00	.00	.00	0.
1	1025	126	.00	.00	.00	0.	*	1	2255	276	.00	.00	.00	0.
1	1030	127	.00	.00	.00	0.	*	1	2300	277	.00	.00	.00	0.
1	1035	128	.00	.00	.00	0.	*	1	2305	278	.00	.00	.00	0.
1	1040	129	.00	.00	.00	0.	*	1	2310	279	.00	.00	.00	0.
1	1045	130	.00	.00	.00	0.	*	1	2315	280	.00	.00	.00	0.
1	1050	131	.00	.00	.00	0.	*	1	2320	281	.00	.00	.00	0.
1	1055	132	.00	.00	.00	0.	*	1	2325	282	.00	.00	.00	0.
1	1100	133	.00	.00	.00	0.	*	1	2330	283	.00	.00	.00	0.
1	1105	134	.00	.00	.00	0.	*	1	2335	284	.00	.00	.00	0.
1	1110	135	.00	.00	.00	0.	*	1	2340	285	.00	.00	.00	0.
1	1115	136	.00	.00	.00	0.	*	1	2345	286	.00	.00	.00	0.
1	1120	137	.00	.00	.00	0.	*	1	2350	287	.00	.00	.00	0.
1	1125	138	.00	.00	.00	0.	*	1	2355	288	.00	.00	.00	0.
1	1130	139	.00	.00	.00	0.	*	2	0000	289	.00	.00	.00	0.
1	1135	140	.00	.00	.00	0.	*	2	0005	290	.00	.00	.00	0.
1	1140	141	.00	.00	.00	0.	*	2	0010	291	.00	.00	.00	0.
1	1145	142	.00	.00	.00	0.	*	2	0015	292	.00	.00	.00	0.
1	1150	143	.00	.00	.00	0.	*	2	0020	293	.00	.00	.00	0.
1	1155	144	.00	.00	.00	0.	*	2	0025	294	.00	.00	.00	0.
1	1200	145	.00	.00	.00	0.	*	2	0030	295	.00	.00	.00	0.
1	1205	146	.00	.00	.00	0.	*	2	0035	296	.00	.00	.00	0.
1	1210	147	.00	.00	.00	0.	*	2	0040	297	.00	.00	.00	0.
1	1215	148	.00	.00	.00	0.	*	2	0045	298	.00	.00	.00	0.
1	1220	149	.00	.00	.00	0.	*	2	0050	299	.00	.00	.00	0.
1	1225	150	.00	.00	.00	0.	*	2	0055	300	.00	.00	.00	0.
							*							

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TOTAL RAINFALL = 2.96, TOTAL LOSS = 1.69, TOTAL EXCESS = 1.27

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
294.	4.42		56.	14.	14.	14.
		(INCHES)	1.262	1.267	1.267	1.267
		(AC-FT)	28.	28.	28.	28.

CUMULATIVE AREA = .41 SQ MI

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          **************
          *            *
 19 KK    *    Node17  *
          *            *
          **************
                    basin routing through transfer drain culverts

 26 KO          OUTPUT CONTROL VARIABLES
                      IPRNT           2  PRINT CONTROL
                      IPLOT           0  PLOT CONTROL
                      QSCAL          0.  HYDROGRAPH PLOT SCALE

             HYDROGRAPH ROUTING DATA

 21 RS          STORAGE ROUTING
                      NSTPS           1  NUMBER OF SUBREACHES
                       ITYP        STOR  TYPE OF INITIAL CONDITION
                     RSVRIC         .00  INITIAL CONDITION
                          X         .00 WORKING R AND D COEFFICIENT

 22 SV            STORAGE          .0        .0        .1        .2       1.8       3.4       7.6      13.8

 23 SE          ELEVATION       77.82     78.00     79.00     80.00     81.00     82.00     83.00     84.00

 24 SL          LOW-LEVEL OUTLET
                      ELEVL       77.82  ELEVATION AT CENTER OF OUTLET
                      CAREA       15.70  CROSS-SECTIONAL AREA
                       COQL         .60  COEFFICIENT
                       EXPL         .50  EXPONENT OF HEAD

 25 SS          SPILLWAY
                       CREL       83.80  SPILLWAY CREST ELEVATION
                      SPWID       15.00  SPILLWAY WIDTH
                       COQW        2.70  WEIR COEFFICIENT
                       EXPW        1.50  EXPONENT OF HEAD
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COMPUTED OUTFLOW-ELEVATION DATA

OUTFLOW	.00	109.17	115.06	121.61	128.96	137.24	146.67	157.49	170.03	184.75
ELEVATION	77.82	79.91	80.14	80.41	80.73	81.12	81.59	82.17	82.89	83.80
OUTFLOW	186.73	187.08	187.48	187.91	188.38	188.90	189.46	190.07	190.73	191.43
ELEVATION	83.87	83.89	83.90	83.91	83.92	83.94	83.95	83.97	83.98	84.00

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	.02	.11	.19	.20	.42	.85	1.37	1.79	1.98
OUTFLOW	.00	32.05	82.07	109.17	111.55	115.06	121.61	128.96	134.72	137.24
ELEVATION	77.82	78.00	79.00	79.91	80.00	80.14	80.41	80.73	81.00	81.12
STORAGE	2.73	3.38	4.07	7.09	7.57	12.56	13.03	13.10	13.17	13.25
OUTFLOW	146.67	154.46	157.49	170.03	171.95	184.75	186.73	187.08	187.48	187.91

ELEVATION	81.59	82.00	82.17	82.89	83.00	83.80	83.87	83.89	83.90	83.91

STORAGE	13.33	13.42	13.51	13.60	13.70	13.81
OUTFLOW	188.38	188.90	189.46	190.07	190.73	191.43
ELEVATION	83.92	83.94	83.95	83.97	83.98	84.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 0. TO 109.
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

****

HYDROGRAPH AT STATION Node17

****

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	77.8	*	1		0820	101	0.	.0	77.8	*	1		1640	201	0.	.0	77.8
1		0005	2	0.	.0	77.8	*	1		0825	102	0.	.0	77.8	*	1		1645	202	0.	.0	77.8
1		0010	3	0.	.0	77.8	*	1		0830	103	0.	.0	77.8	*	1		1650	203	0.	.0	77.8
1		0015	4	0.	.0	77.8	*	1		0835	104	0.	.0	77.8	*	1		1655	204	0.	.0	77.8
1		0020	5	0.	.0	77.8	*	1		0840	105	0.	.0	77.8	*	1		1700	205	0.	.0	77.8
1		0025	6	0.	.0	77.8	*	1		0845	106	0.	.0	77.8	*	1		1705	206	0.	.0	77.8
1		0030	7	0.	.0	77.8	*	1		0850	107	0.	.0	77.8	*	1		1710	207	0.	.0	77.8
1		0035	8	1.	.0	77.8	*	1		0855	108	0.	.0	77.8	*	1		1715	208	0.	.0	77.8
1		0040	9	1.	.0	77.8	*	1		0900	109	0.	.0	77.8	*	1		1720	209	0.	.0	77.8
1		0045	10	1.	.0	77.8	*	1		0905	110	0.	.0	77.8	*	1		1725	210	0.	.0	77.8
1		0050	11	1.	.0	77.8	*	1		0910	111	0.	.0	77.8	*	1		1730	211	0.	.0	77.8
1		0055	12	1.	.0	77.8	*	1		0915	112	0.	.0	77.8	*	1		1735	212	0.	.0	77.8
1		0100	13	1.	.0	77.8	*	1		0920	113	0.	.0	77.8	*	1		1740	213	0.	.0	77.8
1		0105	14	1.	.0	77.8	*	1		0925	114	0.	.0	77.8	*	1		1745	214	0.	.0	77.8
1		0110	15	1.	.0	77.8	*	1		0930	115	0.	.0	77.8	*	1		1750	215	0.	.0	77.8
1		0115	16	1.	.0	77.8	*	1		0935	116	0.	.0	77.8	*	1		1755	216	0.	.0	77.8
1		0120	17	1.	.0	77.8	*	1		0940	117	0.	.0	77.8	*	1		1800	217	0.	.0	77.8
1		0125	18	1.	.0	77.8	*	1		0945	118	0.	.0	77.8	*	1		1805	218	0.	.0	77.8
1		0130	19	2.	.0	77.8	*	1		0950	119	0.	.0	77.8	*	1		1810	219	0.	.0	77.8
1		0135	20	2.	.0	77.8	*	1		0955	120	0.	.0	77.8	*	1		1815	220	0.	.0	77.8
1		0140	21	2.	.0	77.8	*	1		1000	121	0.	.0	77.8	*	1		1820	221	0.	.0	77.8
1		0145	22	2.	.0	77.8	*	1		1005	122	0.	.0	77.8	*	1		1825	222	0.	.0	77.8
1		0150	23	2.	.0	77.8	*	1		1010	123	0.	.0	77.8	*	1		1830	223	0.	.0	77.8
1		0155	24	2.	.0	77.8	*	1		1015	124	0.	.0	77.8	*	1		1835	224	0.	.0	77.8
1		0200	25	2.	.0	77.8	*	1		1020	125	0.	.0	77.8	*	1		1840	225	0.	.0	77.8
1		0205	26	2.	.0	77.8	*	1		1025	126	0.	.0	77.8	*	1		1845	226	0.	.0	77.8
1		0210	27	2.	.0	77.8	*	1		1030	127	0.	.0	77.8	*	1		1850	227	0.	.0	77.8
1		0215	28	2.	.0	77.8	*	1		1035	128	0.	.0	77.8	*	1		1855	228	0.	.0	77.8
1		0220	29	2.	.0	77.8	*	1		1040	129	0.	.0	77.8	*	1		1900	229	0.	.0	77.8
1		0225	30	2.	.0	77.8	*	1		1045	130	0.	.0	77.8	*	1		1905	230	0.	.0	77.8
1		0230	31	2.	.0	77.8	*	1		1050	131	0.	.0	77.8	*	1		1910	231	0.	.0	77.8
1		0235	32	2.	.0	77.8	*	1		1055	132	0.	.0	77.8	*	1		1915	232	0.	.0	77.8
1		0240	33	2.	.0	77.8	*	1		1100	133	0.	.0	77.8	*	1		1920	233	0.	.0	77.8
1		0245	34	2.	.0	77.8	*	1		1105	134	0.	.0	77.8	*	1		1925	234	0.	.0	77.8
1		0250	35	2.	.0	77.8	*	1		1110	135	0.	.0	77.8	*	1		1930	235	0.	.0	77.8
1		0255	36	2.	.0	77.8	*	1		1115	136	0.	.0	77.8	*	1		1935	236	0.	.0	77.8
1		0300	37	2.	.0	77.8	*	1		1120	137	0.	.0	77.8	*	1		1940	237	0.	.0	77.8
1		0305	38	2.	.0	77.8	*	1		1125	138	0.	.0	77.8	*	1		1945	238	0.	.0	77.8
1		0310	39	3.	.0	77.8	*	1		1130	139	0.	.0	77.8	*	1		1950	239	0.	.0	77.8
1		0315	40	3.	.0	77.8	*	1		1135	140	0.	.0	77.8	*	1		1955	240	0.	.0	77.8

1	0320	41	3.	.0	77.8	*	1	1140	141	0.	.0	77.8	*	1	2000	241	0.	.0	77.8
1	0325	42	3.	.0	77.8	*	1	1145	142	0.	.0	77.8	*	1	2005	242	0.	.0	77.8
1	0330	43	4.	.0	77.8	*	1	1150	143	0.	.0	77.8	*	1	2010	243	0.	.0	77.8
1	0335	44	4.	.0	77.8	*	1	1155	144	0.	.0	77.8	*	1	2015	244	0.	.0	77.8
1	0340	45	6.	.0	77.9	*	1	1200	145	0.	.0	77.8	*	1	2020	245	0.	.0	77.8
1	0345	46	9.	.0	77.9	*	1	1205	146	0.	.0	77.8	*	1	2025	246	0.	.0	77.8
1	0350	47	16.	.0	77.9	*	1	1210	147	0.	.0	77.8	*	1	2030	247	0.	.0	77.8
1	0355	48	33.	.0	78.0	*	1	1215	148	0.	.0	77.8	*	1	2035	248	0.	.0	77.8
1	0400	49	60.	.1	78.6	*	1	1220	149	0.	.0	77.8	*	1	2040	249	0.	.0	77.8
1	0405	50	106.	.2	79.8	*	1	1225	150	0.	.0	77.8	*	1	2045	250	0.	.0	77.8
1	0410	51	117.	.5	80.2	*	1	1230	151	0.	.0	77.8	*	1	2050	251	0.	.0	77.8
1	0415	52	127.	1.3	80.7	*	1	1235	152	0.	.0	77.8	*	1	2055	252	0.	.0	77.8
1	0420	53	140.	2.2	81.3	*	1	1240	153	0.	.0	77.8	*	1	2100	253	0.	.0	77.8
1	0425	54	153.	3.2	81.9	*	1	1245	154	0.	.0	77.8	*	1	2105	254	0.	.0	77.8
1	0430	55	158.	4.2	82.2	*	1	1250	155	0.	.0	77.8	*	1	2110	255	0.	.0	77.8
1	0435	56	161.	5.0	82.4	*	1	1255	156	0.	.0	77.8	*	1	2115	256	0.	.0	77.8
1	0440	57	164.	5.6	82.5	*	1	1300	157	0.	.0	77.8	*	1	2120	257	0.	.0	77.8
1	0445	58	166.	6.1	82.7	*	1	1305	158	0.	.0	77.8	*	1	2125	258	0.	.0	77.8
1	0450	59	167.	6.5	82.7	*	1	1310	159	0.	.0	77.8	*	1	2130	259	0.	.0	77.8
1	0455	60	168.	6.6	82.8	*	1	1315	160	0.	.0	77.8	*	1	2135	260	0.	.0	77.8
1	0500	61	168.	6.6	82.8	*	1	1320	161	0.	.0	77.8	*	1	2140	261	0.	.0	77.8
1	0505	62	168.	6.5	82.7	*	1	1325	162	0.	.0	77.8	*	1	2145	262	0.	.0	77.8
1	0510	63	166.	6.2	82.7	*	1	1330	163	0.	.0	77.8	*	1	2150	263	0.	.0	77.8
1	0515	64	165.	5.9	82.6	*	1	1335	164	0.	.0	77.8	*	1	2155	264	0.	.0	77.8
1	0520	65	163.	5.4	82.5	*	1	1340	165	0.	.0	77.8	*	1	2200	265	0.	.0	77.8
1	0525	66	161.	4.9	82.4	*	1	1345	166	0.	.0	77.8	*	1	2205	266	0.	.0	77.8
1	0530	67	159.	4.3	82.2	*	1	1350	167	0.	.0	77.8	*	1	2210	267	0.	.0	77.8
1	0535	68	156.	3.7	82.1	*	1	1355	168	0.	.0	77.8	*	1	2215	268	0.	.0	77.8
1	0540	69	151.	3.1	81.8	*	1	1400	169	0.	.0	77.8	*	1	2220	269	0.	.0	77.8
1	0545	70	143.	2.4	81.4	*	1	1405	170	0.	.0	77.8	*	1	2225	270	0.	.0	77.8
1	0550	71	135.	1.8	81.0	*	1	1410	171	0.	.0	77.8	*	1	2230	271	0.	.0	77.8
1	0555	72	126.	1.2	80.6	*	1	1415	172	0.	.0	77.8	*	1	2235	272	0.	.0	77.8
1	0600	73	117.	.6	80.2	*	1	1420	173	0.	.0	77.8	*	1	2240	273	0.	.0	77.8
1	0605	74	78.	.1	78.9	*	1	1425	174	0.	.0	77.8	*	1	2245	274	0.	.0	77.8
1	0610	75	5.	.0	77.8	*	1	1430	175	0.	.0	77.8	*	1	2250	275	0.	.0	77.8
1	0615	76	36.	.0	78.1	*	1	1435	176	0.	.0	77.8	*	1	2255	276	0.	.0	77.8
1	0620	77	12.	.0	77.9	*	1	1440	177	0.	.0	77.8	*	1	2300	277	0.	.0	77.8
1	0625	78	23.	.0	77.9	*	1	1445	178	0.	.0	77.8	*	1	2305	278	0.	.0	77.8
1	0630	79	12.	.0	77.9	*	1	1450	179	0.	.0	77.8	*	1	2310	279	0.	.0	77.8
1	0635	80	16.	.0	77.9	*	1	1455	180	0.	.0	77.8	*	1	2315	280	0.	.0	77.8
1	0640	81	10.	.0	77.9	*	1	1500	181	0.	.0	77.8	*	1	2320	281	0.	.0	77.8
1	0645	82	12.	.0	77.9	*	1	1505	182	0.	.0	77.8	*	1	2325	282	0.	.0	77.8
1	0650	83	8.	.0	77.9	*	1	1510	183	0.	.0	77.8	*	1	2330	283	0.	.0	77.8
1	0655	84	8.	.0	77.9	*	1	1515	184	0.	.0	77.8	*	1	2335	284	0.	.0	77.8
1	0700	85	6.	.0	77.9	*	1	1520	185	0.	.0	77.8	*	1	2340	285	0.	.0	77.8
1	0705	86	6.	.0	77.9	*	1	1525	186	0.	.0	77.8	*	1	2345	286	0.	.0	77.8
1	0710	87	5.	.0	77.8	*	1	1530	187	0.	.0	77.8	*	1	2350	287	0.	.0	77.8
1	0715	88	5.	.0	77.8	*	1	1535	188	0.	.0	77.8	*	1	2355	288	0.	.0	77.8
1	0720	89	4.	.0	77.8	*	1	1540	189	0.	.0	77.8	*	2	0000	289	0.	.0	77.8
1	0725	90	3.	.0	77.8	*	1	1545	190	0.	.0	77.8	*	2	0005	290	0.	.0	77.8
1	0730	91	2.	.0	77.8	*	1	1550	191	0.	.0	77.8	*	2	0010	291	0.	.0	77.8
1	0735	92	1.	.0	77.8	*	1	1555	192	0.	.0	77.8	*	2	0015	292	0.	.0	77.8
1	0740	93	0.	.0	77.8	*	1	1600	193	0.	.0	77.8	*	2	0020	293	0.	.0	77.8
1	0745	94	0.	.0	77.8	*	1	1605	194	0.	.0	77.8	*	2	0025	294	0.	.0	77.8
1	0750	95	0.	.0	77.8	*	1	1610	195	0.	.0	77.8	*	2	0030	295	0.	.0	77.8
1	0755	96	0.	.0	77.8	*	1	1615	196	0.	.0	77.8	*	2	0035	296	0.	.0	77.8
1	0800	97	0.	.0	77.8	*	1	1620	197	0.	.0	77.8	*	2	0040	297	0.	.0	77.8
1	0805	98	0.	.0	77.8	*	1	1625	198	0.	.0	77.8	*	2	0045	298	0.	.0	77.8

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 1    0810  99      0.      .0    77.8 *  1     1630 199      0.      .0    77.8 *  2     0050 299      0.      .0    77.8
 1    0815 100      0.      .0    77.8 *  1     1635 200      0.      .0    77.8 *  2     0055 300      0.      .0    77.8
                                         *                                          *
*****************************************************************************************************************************

 PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                      6-HR       24-HR       72-HR     24.92-HR
  (CFS)       (HR)
                          (CFS)
    168.      5.00                    56.         14.         14.         14.
                        (INCHES)    1.262       1.267       1.267       1.267
                         (AC-FT)      28.         28.         28.         28.

PEAK STORAGE   TIME                         MAXIMUM AVERAGE STORAGE
                                      6-HR       24-HR       72-HR     24.92-HR
 (AC-FT)      (HR)
      7.      5.00                     1.          0.          0.          0.

 PEAK STAGE    TIME                          MAXIMUM AVERAGE STAGE
                                      6-HR       24-HR       72-HR     24.92-HR
  (FEET)      (HR)
   82.77      5.00                   79.21       78.17       78.16       78.16

                        CUMULATIVE AREA =     .41 SQ MI


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


          **************
          *            *
 27 KK    *    Node10  *
          *            *
          **************
                     Route water from culverts to middle of subdivision

 33 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

            HYDROGRAPH ROUTING DATA

 29 RS          STORAGE ROUTING
                      NSTPS          1  NUMBER OF SUBREACHES
                       ITYP       STOR  TYPE OF INITIAL CONDITION
                     RSVRIC        .00  INITIAL CONDITION
                          X        .00 WORKING R AND D COEFFICIENT

 30 RC          NORMAL DEPTH CHANNEL
                        ANL       .035  LEFT OVERBANK N-VALUE
                       ANCH       .035  MAIN CHANNEL N-VALUE
                        ANR       .035  RIGHT OVERBANK N-VALUE
                      RLNTH       650.  REACH LENGTH
                        SEL      .0022  ENERGY SLOPE
                      ELMAX       15.0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION
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CROSS-SECTION DATA

		--- LEFT OVERBANK ---			+ ------ MAIN CHANNEL		------- + --- RIGHT OVERBANK ---		
32 RY	ELEVATION	15.00	11.00	10.00	5.85	5.85	10.00	11.00	15.00
31 RX	DISTANCE	.00	20.00	120.00	136.60	146.60	162.20	262.20	282.20

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COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	.09	.20	.34	.50	.69	.91	1.16	1.43	1.78
OUTFLOW	.00	6.32	21.74	46.35	81.01	126.67	184.32	254.90	339.36	449.06
ELEVATION	5.85	6.33	6.81	7.29	7.78	8.26	8.74	9.22	9.70	10.18
STORAGE	2.70	4.27	6.04	7.84	9.68	11.55	13.46	15.40	17.38	19.39
OUTFLOW	628.29	931.10	1390.33	1963.47	2640.18	3413.96	4280.30	5235.91	6278.27	7405.46
ELEVATION	10.67	11.15	11.63	12.11	12.59	13.07	13.56	14.04	14.52	15.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 255. TO 7405.
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

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HYDROGRAPH AT STATION Node10

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DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	5.8	*	1		0820	101	0.	.0	5.9	*	1		1640	201	0.	.0	5.8
1		0005	2	0.	.0	5.9	*	1		0825	102	0.	.0	5.9	*	1		1645	202	0.	.0	5.8
1		0010	3	0.	.0	5.9	*	1		0830	103	0.	.0	5.9	*	1		1650	203	0.	.0	5.8
1		0015	4	0.	.0	5.9	*	1		0835	104	0.	.0	5.9	*	1		1655	204	0.	.0	5.8
1		0020	5	0.	.0	5.9	*	1		0840	105	0.	.0	5.9	*	1		1700	205	0.	.0	5.8
1		0025	6	0.	.0	5.9	*	1		0845	106	0.	.0	5.9	*	1		1705	206	0.	.0	5.8
1		0030	7	0.	.0	5.9	*	1		0850	107	0.	.0	5.9	*	1		1710	207	0.	.0	5.8
1		0035	8	0.	.0	5.9	*	1		0855	108	0.	.0	5.9	*	1		1715	208	0.	.0	5.8
1		0040	9	0.	.0	5.9	*	1		0900	109	0.	.0	5.9	*	1		1720	209	0.	.0	5.8
1		0045	10	1.	.0	5.9	*	1		0905	110	0.	.0	5.9	*	1		1725	210	0.	.0	5.8
1		0050	11	1.	.0	5.9	*	1		0910	111	0.	.0	5.9	*	1		1730	211	0.	.0	5.8
1		0055	12	1.	.0	5.9	*	1		0915	112	0.	.0	5.9	*	1		1735	212	0.	.0	5.8
1		0100	13	1.	.0	5.9	*	1		0920	113	0.	.0	5.9	*	1		1740	213	0.	.0	5.8
1		0105	14	1.	.0	5.9	*	1		0925	114	0.	.0	5.9	*	1		1745	214	0.	.0	5.8
1		0110	15	1.	.0	5.9	*	1		0930	115	0.	.0	5.9	*	1		1750	215	0.	.0	5.8
1		0115	16	1.	.0	5.9	*	1		0935	116	0.	.0	5.9	*	1		1755	216	0.	.0	5.8
1		0120	17	1.	.0	5.9	*	1		0940	117	0.	.0	5.9	*	1		1800	217	0.	.0	5.8
1		0125	18	1.	.0	6.0	*	1		0945	118	0.	.0	5.9	*	1		1805	218	0.	.0	5.8
1		0130	19	1.	.0	6.0	*	1		0950	119	0.	.0	5.9	*	1		1810	219	0.	.0	5.8
1		0135	20	1.	.0	6.0	*	1		0955	120	0.	.0	5.9	*	1		1815	220	0.	.0	5.8
1		0140	21	2.	.0	6.0	*	1		1000	121	0.	.0	5.9	*	1		1820	221	0.	.0	5.8
1		0145	22	2.	.0	6.0	*	1		1005	122	0.	.0	5.9	*	1		1825	222	0.	.0	5.8
1		0150	23	2.	.0	6.0	*	1		1010	123	0.	.0	5.9	*	1		1830	223	0.	.0	5.8
1		0155	24	2.	.0	6.0	*	1		1015	124	0.	.0	5.9	*	1		1835	224	0.	.0	5.8
1		0200	25	2.	.0	6.0	*	1		1020	125	0.	.0	5.9	*	1		1840	225	0.	.0	5.8
1		0205	26	2.	.0	6.0	*	1		1025	126	0.	.0	5.9	*	1		1845	226	0.	.0	5.8
1		0210	27	2.	.0	6.0	*	1		1030	127	0.	.0	5.9	*	1		1850	227	0.	.0	5.8

1	0215	28	2.	.0	6.0	*	1	1035	128	0.	.0	5.9	*	1	1855	228	0.	.0	5.8
1	0220	29	2.	.0	6.0	*	1	1040	129	0.	.0	5.9	*	1	1900	229	0.	.0	5.8
1	0225	30	2.	.0	6.0	*	1	1045	130	0.	.0	5.9	*	1	1905	230	0.	.0	5.8
1	0230	31	2.	.0	6.0	*	1	1050	131	0.	.0	5.8	*	1	1910	231	0.	.0	5.8
1	0235	32	2.	.0	6.0	*	1	1055	132	0.	.0	5.8	*	1	1915	232	0.	.0	5.8
1	0240	33	2.	.0	6.0	*	1	1100	133	0.	.0	5.8	*	1	1920	233	0.	.0	5.8
1	0245	34	2.	.0	6.0	*	1	1105	134	0.	.0	5.8	*	1	1925	234	0.	.0	5.8
1	0250	35	2.	.0	6.0	*	1	1110	135	0.	.0	5.8	*	1	1930	235	0.	.0	5.8
1	0255	36	2.	.0	6.0	*	1	1115	136	0.	.0	5.8	*	1	1935	236	0.	.0	5.8
1	0300	37	2.	.0	6.0	*	1	1120	137	0.	.0	5.8	*	1	1940	237	0.	.0	5.8
1	0305	38	2.	.0	6.0	*	1	1125	138	0.	.0	5.8	*	1	1945	238	0.	.0	5.8
1	0310	39	2.	.0	6.0	*	1	1130	139	0.	.0	5.8	*	1	1950	239	0.	.0	5.8
1	0315	40	2.	.0	6.0	*	1	1135	140	0.	.0	5.8	*	1	1955	240	0.	.0	5.8
1	0320	41	3.	.0	6.0	*	1	1140	141	0.	.0	5.8	*	1	2000	241	0.	.0	5.8
1	0325	42	3.	.0	6.1	*	1	1145	142	0.	.0	5.8	*	1	2005	242	0.	.0	5.8
1	0330	43	3.	.0	6.1	*	1	1150	143	0.	.0	5.8	*	1	2010	243	0.	.0	5.8
1	0335	44	3.	.0	6.1	*	1	1155	144	0.	.0	5.8	*	1	2015	244	0.	.0	5.8
1	0340	45	4.	.1	6.2	*	1	1200	145	0.	.0	5.8	*	1	2020	245	0.	.0	5.8
1	0345	46	5.	.1	6.3	*	1	1205	146	0.	.0	5.8	*	1	2025	246	0.	.0	5.8
1	0350	47	9.	.1	6.4	*	1	1210	147	0.	.0	5.8	*	1	2030	247	0.	.0	5.8
1	0355	48	19.	.2	6.7	*	1	1215	148	0.	.0	5.8	*	1	2035	248	0.	.0	5.8
1	0400	49	39.	.3	7.2	*	1	1220	149	0.	.0	5.8	*	1	2040	249	0.	.0	5.8
1	0405	50	75.	.5	7.7	*	1	1225	150	0.	.0	5.8	*	1	2045	250	0.	.0	5.8
1	0410	51	107.	.6	8.1	*	1	1230	151	0.	.0	5.8	*	1	2050	251	0.	.0	5.8
1	0415	52	121.	.7	8.2	*	1	1235	152	0.	.0	5.8	*	1	2055	252	0.	.0	5.8
1	0420	53	133.	.7	8.3	*	1	1240	153	0.	.0	5.8	*	1	2100	253	0.	.0	5.8
1	0425	54	146.	.8	8.4	*	1	1245	154	0.	.0	5.8	*	1	2105	254	0.	.0	5.8
1	0430	55	155.	.8	8.5	*	1	1250	155	0.	.0	5.8	*	1	2110	255	0.	.0	5.8
1	0435	56	159.	.8	8.5	*	1	1255	156	0.	.0	5.8	*	1	2115	256	0.	.0	5.8
1	0440	57	162.	.8	8.6	*	1	1300	157	0.	.0	5.8	*	1	2120	257	0.	.0	5.8
1	0445	58	165.	.8	8.6	*	1	1305	158	0.	.0	5.8	*	1	2125	258	0.	.0	5.8
1	0450	59	167.	.8	8.6	*	1	1310	159	0.	.0	5.8	*	1	2130	259	0.	.0	5.8
1	0455	60	168.	.9	8.6	*	1	1315	160	0.	.0	5.8	*	1	2135	260	0.	.0	5.8
1	0500	61	168.	.9	8.6	*	1	1320	161	0.	.0	5.8	*	1	2140	261	0.	.0	5.8
1	0505	62	168.	.9	8.6	*	1	1325	162	0.	.0	5.8	*	1	2145	262	0.	.0	5.8
1	0510	63	167.	.8	8.6	*	1	1330	163	0.	.0	5.8	*	1	2150	263	0.	.0	5.8
1	0515	64	166.	.8	8.6	*	1	1335	164	0.	.0	5.8	*	1	2155	264	0.	.0	5.8
1	0520	65	164.	.8	8.6	*	1	1340	165	0.	.0	5.8	*	1	2200	265	0.	.0	5.8
1	0525	66	162.	.8	8.6	*	1	1345	166	0.	.0	5.8	*	1	2205	266	0.	.0	5.8
1	0530	67	160.	.8	8.5	*	1	1350	167	0.	.0	5.8	*	1	2210	267	0.	.0	5.8
1	0535	68	157.	.8	8.5	*	1	1355	168	0.	.0	5.8	*	1	2215	268	0.	.0	5.8
1	0540	69	154.	.8	8.5	*	1	1400	169	0.	.0	5.8	*	1	2220	269	0.	.0	5.8
1	0545	70	147.	.8	8.4	*	1	1405	170	0.	.0	5.8	*	1	2225	270	0.	.0	5.8
1	0550	71	139.	.7	8.4	*	1	1410	171	0.	.0	5.8	*	1	2230	271	0.	.0	5.8
1	0555	72	131.	.7	8.3	*	1	1415	172	0.	.0	5.8	*	1	2235	272	0.	.0	5.8
1	0600	73	122.	.7	8.2	*	1	1420	173	0.	.0	5.8	*	1	2240	273	0.	.0	5.8
1	0605	74	100.	.6	8.0	*	1	1425	174	0.	.0	5.8	*	1	2245	274	0.	.0	5.8
1	0610	75	50.	.4	7.3	*	1	1430	175	0.	.0	5.8	*	1	2250	275	0.	.0	5.8
1	0615	76	27.	.2	6.9	*	1	1435	176	0.	.0	5.8	*	1	2255	276	0.	.0	5.8
1	0620	77	25.	.2	6.9	*	1	1440	177	0.	.0	5.8	*	1	2300	277	0.	.0	5.8
1	0625	78	20.	.2	6.7	*	1	1445	178	0.	.0	5.8	*	1	2305	278	0.	.0	5.8
1	0630	79	18.	.2	6.7	*	1	1450	179	0.	.0	5.8	*	1	2310	279	0.	.0	5.8
1	0635	80	15.	.2	6.6	*	1	1455	180	0.	.0	5.8	*	1	2315	280	0.	.0	5.8
1	0640	81	14.	.1	6.6	*	1	1500	181	0.	.0	5.8	*	1	2320	281	0.	.0	5.8
1	0645	82	12.	.1	6.5	*	1	1505	182	0.	.0	5.8	*	1	2325	282	0.	.0	5.8
1	0650	83	11.	.1	6.5	*	1	1510	183	0.	.0	5.8	*	1	2330	283	0.	.0	5.8
1	0655	84	9.	.1	6.4	*	1	1515	184	0.	.0	5.8	*	1	2335	284	0.	.0	5.8
1	0700	85	8.	.1	6.4	*	1	1520	185	0.	.0	5.8	*	1	2340	285	0.	.0	5.8

1	0705	86	7.	.1	6.4	*	1	1525	186	0.	.0	5.8	*	1	2345	286	0.	.0	5.8
1	0710	87	6.	.1	6.3	*	1	1530	187	0.	.0	5.8	*	1	2350	287	0.	.0	5.8
1	0715	88	6.	.1	6.3	*	1	1535	188	0.	.0	5.8	*	1	2355	288	0.	.0	5.8
1	0720	89	5.	.1	6.2	*	1	1540	189	0.	.0	5.8	*	2	0000	289	0.	.0	5.8
1	0725	90	4.	.1	6.2	*	1	1545	190	0.	.0	5.8	*	2	0005	290	0.	.0	5.8
1	0730	91	4.	.1	6.1	*	1	1550	191	0.	.0	5.8	*	2	0010	291	0.	.0	5.8
1	0735	92	3.	.0	6.1	*	1	1555	192	0.	.0	5.8	*	2	0015	292	0.	.0	5.8
1	0740	93	2.	.0	6.0	*	1	1600	193	0.	.0	5.8	*	2	0020	293	0.	.0	5.8
1	0745	94	1.	.0	6.0	*	1	1605	194	0.	.0	5.8	*	2	0025	294	0.	.0	5.8
1	0750	95	1.	.0	5.9	*	1	1610	195	0.	.0	5.8	*	2	0030	295	0.	.0	5.8
1	0755	96	1.	.0	5.9	*	1	1615	196	0.	.0	5.8	*	2	0035	296	0.	.0	5.8
1	0800	97	0.	.0	5.9	*	1	1620	197	0.	.0	5.8	*	2	0040	297	0.	.0	5.8
1	0805	98	0.	.0	5.9	*	1	1625	198	0.	.0	5.8	*	2	0045	298	0.	.0	5.8
1	0810	99	0.	.0	5.9	*	1	1630	199	0.	.0	5.8	*	2	0050	299	0.	.0	5.8
1	0815	100	0.	.0	5.9	*	1	1635	200	0.	.0	5.8	*	2	0055	300	0.	.0	5.8
						*							*						

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
168.	5.00		56.	14.	14.	14.
		(INCHES)	1.261	1.267	1.267	1.267
		(AC-FT)	28.	28.	28.	28.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
1.	5.00	0.	0.	0.	0.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
8.60	5.00	7.01	6.14	6.13	6.13

CUMULATIVE AREA = .41 SQ MI

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          **************
          *            *
 34 KK    *   DEVELO   *     PE RAINFALL FOR SUBBASIN G2
          *            *
          **************
                    6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
                    THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
                   L =  .41  Kb = .064  Adj. Slope =   48.9

 44 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE
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SUBBASIN RUNOFF DATA

38 BA SUBBASIN CHARACTERISTICS

TAREA	.04	SUBBASIN AREA

PRECIPITATION DATA

39 PB

STORM	2.96	BASIN TOTAL PRECIPITATION

11 PI INCREMENTAL PRECIPITATION PATTERN

.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.01	.01	.01	.01	.01	.01	.03
.03	.03	.05	.05	.05	.15	.15	.15	.03	.03
.03	.01	.01	.01	.01	.01	.01	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00								

40 LG GREEN AND AMPT LOSS RATE

STRTL	.43	STARTING LOSS
DTH	.25	MOISTURE DEFICIT
PSIF	3.50	WETTING FRONT SUCTION
XKSAT	.51	HYDRAULIC CONDUCTIVITY
RTIMP	30.00	PERCENT IMPERVIOUS AREA

41 UC CLARK UNITGRAPH

TC	.46	TIME OF CONCENTRATION
R	.48	STORAGE COEFFICIENT

42 UA ACCUMULATED-AREA VS. TIME, 11 ORDINATES

.0	5.0	16.0	30.0	65.0	77.0	84.0	90.0	94.0	97.0
100.0									

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UNIT HYDROGRAPH PARAMETERS

CLARK TC= .46 HR, R= .48 HR

SNYDER TP= .32 HR, CP= .43

UNIT HYDROGRAPH

33 END-OF-PERIOD ORDINATES

3.	16.	30.	35.	33.	30.	26.	22.	18.	15.
13.	11.	9.	8.	6.	5.	5.	4.	3.	3.
2.	2.	2.	1.	1.	1.	1.	1.	1.	0.
0.	0.	0.							

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HYDROGRAPH AT STATION DEVELO

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
								*								
1		0000	1	.00	.00	.00	0.	*	1		1230	151	.00	.00	.00	0.
1		0005	2	.01	.01	.00	0.	*	1		1235	152	.00	.00	.00	0.
1		0010	3	.01	.01	.00	0.	*	1		1240	153	.00	.00	.00	0.

1	0015	4	.01	.01	.00	0.	*	1	1245	154	.00	.00	.00	0.
1	0020	5	.01	.01	.00	0.	*	1	1250	155	.00	.00	.00	0.
1	0025	6	.01	.01	.00	0.	*	1	1255	156	.00	.00	.00	0.
1	0030	7	.01	.01	.00	0.	*	1	1300	157	.00	.00	.00	0.
1	0035	8	.01	.01	.00	0.	*	1	1305	158	.00	.00	.00	0.
1	0040	9	.01	.01	.00	0.	*	1	1310	159	.00	.00	.00	0.
1	0045	10	.01	.01	.00	1.	*	1	1315	160	.00	.00	.00	0.
1	0050	11	.01	.01	.00	1.	*	1	1320	161	.00	.00	.00	0.
1	0055	12	.01	.01	.00	1.	*	1	1325	162	.00	.00	.00	0.
1	0100	13	.01	.01	.00	1.	*	1	1330	163	.00	.00	.00	0.
1	0105	14	.01	.01	.00	1.	*	1	1335	164	.00	.00	.00	0.
1	0110	15	.01	.01	.00	1.	*	1	1340	165	.00	.00	.00	0.
1	0115	16	.01	.01	.00	1.	*	1	1345	166	.00	.00	.00	0.
1	0120	17	.01	.01	.00	1.	*	1	1350	167	.00	.00	.00	0.
1	0125	18	.01	.01	.00	1.	*	1	1355	168	.00	.00	.00	0.
1	0130	19	.01	.01	.00	1.	*	1	1400	169	.00	.00	.00	0.
1	0135	20	.01	.01	.00	1.	*	1	1405	170	.00	.00	.00	0.
1	0140	21	.01	.01	.00	1.	*	1	1410	171	.00	.00	.00	0.
1	0145	22	.01	.01	.00	1.	*	1	1415	172	.00	.00	.00	0.
1	0150	23	.01	.01	.00	1.	*	1	1420	173	.00	.00	.00	0.
1	0155	24	.01	.01	.00	1.	*	1	1425	174	.00	.00	.00	0.
1	0200	25	.01	.01	.00	1.	*	1	1430	175	.00	.00	.00	0.
1	0205	26	.01	.01	.00	1.	*	1	1435	176	.00	.00	.00	0.
1	0210	27	.01	.01	.00	1.	*	1	1440	177	.00	.00	.00	0.
1	0215	28	.01	.01	.00	1.	*	1	1445	178	.00	.00	.00	0.
1	0220	29	.01	.01	.00	1.	*	1	1450	179	.00	.00	.00	0.
1	0225	30	.01	.01	.00	1.	*	1	1455	180	.00	.00	.00	0.
1	0230	31	.01	.01	.00	1.	*	1	1500	181	.00	.00	.00	0.
1	0235	32	.01	.01	.00	1.	*	1	1505	182	.00	.00	.00	0.
1	0240	33	.01	.01	.00	1.	*	1	1510	183	.00	.00	.00	0.
1	0245	34	.01	.01	.00	1.	*	1	1515	184	.00	.00	.00	0.
1	0250	35	.02	.01	.01	1.	*	1	1520	185	.00	.00	.00	0.
1	0255	36	.02	.01	.01	1.	*	1	1525	186	.00	.00	.00	0.
1	0300	37	.02	.01	.01	1.	*	1	1530	187	.00	.00	.00	0.
1	0305	38	.02	.01	.01	1.	*	1	1535	188	.00	.00	.00	0.
1	0310	39	.02	.01	.01	1.	*	1	1540	189	.00	.00	.00	0.
1	0315	40	.02	.01	.01	1.	*	1	1545	190	.00	.00	.00	0.
1	0320	41	.08	.05	.02	1.	*	1	1550	191	.00	.00	.00	0.
1	0325	42	.08	.05	.02	2.	*	1	1555	192	.00	.00	.00	0.
1	0330	43	.08	.05	.02	2.	*	1	1600	193	.00	.00	.00	0.
1	0335	44	.16	.11	.05	3.	*	1	1605	194	.00	.00	.00	0.
1	0340	45	.16	.09	.07	4.	*	1	1610	195	.00	.00	.00	0.
1	0345	46	.16	.08	.08	6.	*	1	1615	196	.00	.00	.00	0.
1	0350	47	.45	.07	.38	9.	*	1	1620	197	.00	.00	.00	0.
1	0355	48	.45	.07	.39	16.	*	1	1625	198	.00	.00	.00	0.
1	0400	49	.45	.06	.39	27.	*	1	1630	199	.00	.00	.00	0.
1	0405	50	.08	.05	.02	39.	*	1	1635	200	.00	.00	.00	0.
1	0410	51	.08	.05	.02	45.	*	1	1640	201	.00	.00	.00	0.
1	0415	52	.08	.05	.02	45.	*	1	1645	202	.00	.00	.00	0.
1	0420	53	.02	.01	.01	41.	*	1	1650	203	.00	.00	.00	0.
1	0425	54	.02	.01	.01	36.	*	1	1655	204	.00	.00	.00	0.
1	0430	55	.02	.01	.01	31.	*	1	1700	205	.00	.00	.00	0.
1	0435	56	.02	.01	.01	27.	*	1	1705	206	.00	.00	.00	0.
1	0440	57	.02	.01	.01	23.	*	1	1710	207	.00	.00	.00	0.
1	0445	58	.02	.01	.01	19.	*	1	1715	208	.00	.00	.00	0.
1	0450	59	.01	.01	.00	17.	*	1	1720	209	.00	.00	.00	0.
1	0455	60	.01	.01	.00	14.	*	1	1725	210	.00	.00	.00	0.
1	0500	61	.01	.01	.00	12.	*	1	1730	211	.00	.00	.00	0.

1	0505	62	.01	.01	.00	10.	*	1	1735	212	.00	.00	.00	0.
1	0510	63	.01	.01	.00	9.	*	1	1740	213	.00	.00	.00	0.
1	0515	64	.01	.01	.00	8.	*	1	1745	214	.00	.00	.00	0.
1	0520	65	.01	.01	.00	7.	*	1	1750	215	.00	.00	.00	0.
1	0525	66	.01	.01	.00	6.	*	1	1755	216	.00	.00	.00	0.
1	0530	67	.01	.01	.00	5.	*	1	1800	217	.00	.00	.00	0.
1	0535	68	.01	.01	.00	4.	*	1	1805	218	.00	.00	.00	0.
1	0540	69	.01	.01	.00	4.	*	1	1810	219	.00	.00	.00	0.
1	0545	70	.01	.01	.00	3.	*	1	1815	220	.00	.00	.00	0.
1	0550	71	.01	.01	.00	3.	*	1	1820	221	.00	.00	.00	0.
1	0555	72	.01	.01	.00	3.	*	1	1825	222	.00	.00	.00	0.
1	0600	73	.01	.01	.00	2.	*	1	1830	223	.00	.00	.00	0.
1	0605	74	.00	.00	.00	2.	*	1	1835	224	.00	.00	.00	0.
1	0610	75	.00	.00	.00	2.	*	1	1840	225	.00	.00	.00	0.
1	0615	76	.00	.00	.00	2.	*	1	1845	226	.00	.00	.00	0.
1	0620	77	.00	.00	.00	1.	*	1	1850	227	.00	.00	.00	0.
1	0625	78	.00	.00	.00	1.	*	1	1855	228	.00	.00	.00	0.
1	0630	79	.00	.00	.00	1.	*	1	1900	229	.00	.00	.00	0.
1	0635	80	.00	.00	.00	1.	*	1	1905	230	.00	.00	.00	0.
1	0640	81	.00	.00	.00	0.	*	1	1910	231	.00	.00	.00	0.
1	0645	82	.00	.00	.00	0.	*	1	1915	232	.00	.00	.00	0.
1	0650	83	.00	.00	.00	0.	*	1	1920	233	.00	.00	.00	0.
1	0655	84	.00	.00	.00	0.	*	1	1925	234	.00	.00	.00	0.
1	0700	85	.00	.00	.00	0.	*	1	1930	235	.00	.00	.00	0.
1	0705	86	.00	.00	.00	0.	*	1	1935	236	.00	.00	.00	0.
1	0710	87	.00	.00	.00	0.	*	1	1940	237	.00	.00	.00	0.
1	0715	88	.00	.00	.00	0.	*	1	1945	238	.00	.00	.00	0.
1	0720	89	.00	.00	.00	0.	*	1	1950	239	.00	.00	.00	0.
1	0725	90	.00	.00	.00	0.	*	1	1955	240	.00	.00	.00	0.
1	0730	91	.00	.00	.00	0.	*	1	2000	241	.00	.00	.00	0.
1	0735	92	.00	.00	.00	0.	*	1	2005	242	.00	.00	.00	0.
1	0740	93	.00	.00	.00	0.	*	1	2010	243	.00	.00	.00	0.
1	0745	94	.00	.00	.00	0.	*	1	2015	244	.00	.00	.00	0.
1	0750	95	.00	.00	.00	0.	*	1	2020	245	.00	.00	.00	0.
1	0755	96	.00	.00	.00	0.	*	1	2025	246	.00	.00	.00	0.
1	0800	97	.00	.00	.00	0.	*	1	2030	247	.00	.00	.00	0.
1	0805	98	.00	.00	.00	0.	*	1	2035	248	.00	.00	.00	0.
1	0810	99	.00	.00	.00	0.	*	1	2040	249	.00	.00	.00	0.
1	0815	100	.00	.00	.00	0.	*	1	2045	250	.00	.00	.00	0.
1	0820	101	.00	.00	.00	0.	*	1	2050	251	.00	.00	.00	0.
1	0825	102	.00	.00	.00	0.	*	1	2055	252	.00	.00	.00	0.
1	0830	103	.00	.00	.00	0.	*	1	2100	253	.00	.00	.00	0.
1	0835	104	.00	.00	.00	0.	*	1	2105	254	.00	.00	.00	0.
1	0840	105	.00	.00	.00	0.	*	1	2110	255	.00	.00	.00	0.
1	0845	106	.00	.00	.00	0.	*	1	2115	256	.00	.00	.00	0.
1	0850	107	.00	.00	.00	0.	*	1	2120	257	.00	.00	.00	0.
1	0855	108	.00	.00	.00	0.	*	1	2125	258	.00	.00	.00	0.
1	0900	109	.00	.00	.00	0.	*	1	2130	259	.00	.00	.00	0.
1	0905	110	.00	.00	.00	0.	*	1	2135	260	.00	.00	.00	0.
1	0910	111	.00	.00	.00	0.	*	1	2140	261	.00	.00	.00	0.
1	0915	112	.00	.00	.00	0.	*	1	2145	262	.00	.00	.00	0.
1	0920	113	.00	.00	.00	0.	*	1	2150	263	.00	.00	.00	0.
1	0925	114	.00	.00	.00	0.	*	1	2155	264	.00	.00	.00	0.
1	0930	115	.00	.00	.00	0.	*	1	2200	265	.00	.00	.00	0.
1	0935	116	.00	.00	.00	0.	*	1	2205	266	.00	.00	.00	0.
1	0940	117	.00	.00	.00	0.	*	1	2210	267	.00	.00	.00	0.
1	0945	118	.00	.00	.00	0.	*	1	2215	268	.00	.00	.00	0.
1	0950	119	.00	.00	.00	0.	*	1	2220	269	.00	.00	.00	0.

1	0955	120	.00	.00	.00	0.	*	1	2225	270	.00	.00	.00	0.
1	1000	121	.00	.00	.00	0.	*	1	2230	271	.00	.00	.00	0.
1	1005	122	.00	.00	.00	0.	*	1	2235	272	.00	.00	.00	0.
1	1010	123	.00	.00	.00	0.	*	1	2240	273	.00	.00	.00	0.
1	1015	124	.00	.00	.00	0.	*	1	2245	274	.00	.00	.00	0.
1	1020	125	.00	.00	.00	0.	*	1	2250	275	.00	.00	.00	0.
1	1025	126	.00	.00	.00	0.	*	1	2255	276	.00	.00	.00	0.
1	1030	127	.00	.00	.00	0.	*	1	2300	277	.00	.00	.00	0.
1	1035	128	.00	.00	.00	0.	*	1	2305	278	.00	.00	.00	0.
1	1040	129	.00	.00	.00	0.	*	1	2310	279	.00	.00	.00	0.
1	1045	130	.00	.00	.00	0.	*	1	2315	280	.00	.00	.00	0.
1	1050	131	.00	.00	.00	0.	*	1	2320	281	.00	.00	.00	0.
1	1055	132	.00	.00	.00	0.	*	1	2325	282	.00	.00	.00	0.
1	1100	133	.00	.00	.00	0.	*	1	2330	283	.00	.00	.00	0.
1	1105	134	.00	.00	.00	0.	*	1	2335	284	.00	.00	.00	0.
1	1110	135	.00	.00	.00	0.	*	1	2340	285	.00	.00	.00	0.
1	1115	136	.00	.00	.00	0.	*	1	2345	286	.00	.00	.00	0.
1	1120	137	.00	.00	.00	0.	*	1	2350	287	.00	.00	.00	0.
1	1125	138	.00	.00	.00	0.	*	1	2355	288	.00	.00	.00	0.
1	1130	139	.00	.00	.00	0.	*	2	0000	289	.00	.00	.00	0.
1	1135	140	.00	.00	.00	0.	*	2	0005	290	.00	.00	.00	0.
1	1140	141	.00	.00	.00	0.	*	2	0010	291	.00	.00	.00	0.
1	1145	142	.00	.00	.00	0.	*	2	0015	292	.00	.00	.00	0.
1	1150	143	.00	.00	.00	0.	*	2	0020	293	.00	.00	.00	0.
1	1155	144	.00	.00	.00	0.	*	2	0025	294	.00	.00	.00	0.
1	1200	145	.00	.00	.00	0.	*	2	0030	295	.00	.00	.00	0.
1	1205	146	.00	.00	.00	0.	*	2	0035	296	.00	.00	.00	0.
1	1210	147	.00	.00	.00	0.	*	2	0040	297	.00	.00	.00	0.
1	1215	148	.00	.00	.00	0.	*	2	0045	298	.00	.00	.00	0.
1	1220	149	.00	.00	.00	0.	*	2	0050	299	.00	.00	.00	0.
1	1225	150	.00	.00	.00	0.	*	2	0055	300	.00	.00	.00	0.
							*							

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TOTAL RAINFALL = 2.96, TOTAL LOSS = 1.27, TOTAL EXCESS = 1.69

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
45.	4.17		7.	2.	2.	2.
		(INCHES)	1.672	1.683	1.683	1.683
		(AC-FT)	4.	4.	4.	4.

CUMULATIVE AREA = .04 SQ MI

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          **************
          *            *
45 KK     *   Node7    *
          *            *
          **************
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Route flow through basin to remove developed area storage

52 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE

HYDROGRAPH ROUTING DATA

47 RS STORAGE ROUTING

NSTPS	1	NUMBER OF SUBREACHES
ITYP	STOR	TYPE OF INITIAL CONDITION
RSVRIC	.00	INITIAL CONDITION
X	.00	WORKING R AND D COEFFICIENT

48 SV	STORAGE	.0	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.5
		2.8									
50 SQ	DISCHARGE	0.	0.	10.	15.	20.	25.	30.	35.	40.	45.
		50.									

***

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 0. TO 35.
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

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HYDROGRAPH AT STATION Node7

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DA	MON	HRMN	ORD	OUTFLOW	STORAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE
1		0000	1	0.	.00	*	1		0820	101	0.	2.13	*	1		1640	201	0.	2.13
1		0005	2	0.	.00	*	1		0825	102	0.	2.13	*	1		1645	202	0.	2.13
1		0010	3	0.	.00	*	1		0830	103	0.	2.13	*	1		1650	203	0.	2.13
1		0015	4	0.	.00	*	1		0835	104	0.	2.13	*	1		1655	204	0.	2.13
1		0020	5	0.	.00	*	1		0840	105	0.	2.13	*	1		1700	205	0.	2.13
1		0025	6	0.	.00	*	1		0845	106	0.	2.13	*	1		1705	206	0.	2.13
1		0030	7	0.	.01	*	1		0850	107	0.	2.13	*	1		1710	207	0.	2.13
1		0035	8	0.	.01	*	1		0855	108	0.	2.13	*	1		1715	208	0.	2.13
1		0040	9	0.	.01	*	1		0900	109	0.	2.13	*	1		1720	209	0.	2.13
1		0045	10	0.	.01	*	1		0905	110	0.	2.13	*	1		1725	210	0.	2.13
1		0050	11	0.	.02	*	1		0910	111	0.	2.13	*	1		1730	211	0.	2.13
1		0055	12	0.	.02	*	1		0915	112	0.	2.13	*	1		1735	212	0.	2.13
1		0100	13	0.	.03	*	1		0920	113	0.	2.13	*	1		1740	213	0.	2.13
1		0105	14	0.	.03	*	1		0925	114	0.	2.13	*	1		1745	214	0.	2.13
1		0110	15	0.	.04	*	1		0930	115	0.	2.13	*	1		1750	215	0.	2.13
1		0115	16	0.	.04	*	1		0935	116	0.	2.13	*	1		1755	216	0.	2.13
1		0120	17	0.	.04	*	1		0940	117	0.	2.13	*	1		1800	217	0.	2.13
1		0125	18	0.	.05	*	1		0945	118	0.	2.13	*	1		1805	218	0.	2.13
1		0130	19	0.	.05	*	1		0950	119	0.	2.13	*	1		1810	219	0.	2.13
1		0135	20	0.	.06	*	1		0955	120	0.	2.13	*	1		1815	220	0.	2.13
1		0140	21	0.	.06	*	1		1000	121	0.	2.13	*	1		1820	221	0.	2.13
1		0145	22	0.	.07	*	1		1005	122	0.	2.13	*	1		1825	222	0.	2.13
1		0150	23	0.	.07	*	1		1010	123	0.	2.13	*	1		1830	223	0.	2.13
1		0155	24	0.	.08	*	1		1015	124	0.	2.13	*	1		1835	224	0.	2.13

1	0200	25	0.	.08	*	1	1020	125	0.	2.13	*	1	1840	225	0.	2.13
1	0205	26	0.	.09	*	1	1025	126	0.	2.13	*	1	1845	226	0.	2.13
1	0210	27	0.	.10	*	1	1030	127	0.	2.13	*	1	1850	227	0.	2.13
1	0215	28	0.	.10	*	1	1035	128	0.	2.13	*	1	1855	228	0.	2.13
1	0220	29	0.	.11	*	1	1040	129	0.	2.13	*	1	1900	229	0.	2.13
1	0225	30	0.	.11	*	1	1045	130	0.	2.13	*	1	1905	230	0.	2.13
1	0230	31	0.	.12	*	1	1050	131	0.	2.13	*	1	1910	231	0.	2.13
1	0235	32	0.	.12	*	1	1055	132	0.	2.13	*	1	1915	232	0.	2.13
1	0240	33	0.	.13	*	1	1100	133	0.	2.13	*	1	1920	233	0.	2.13
1	0245	34	0.	.13	*	1	1105	134	0.	2.13	*	1	1925	234	0.	2.13
1	0250	35	0.	.14	*	1	1110	135	0.	2.13	*	1	1930	235	0.	2.13
1	0255	36	0.	.15	*	1	1115	136	0.	2.13	*	1	1935	236	0.	2.13
1	0300	37	0.	.16	*	1	1120	137	0.	2.13	*	1	1940	237	0.	2.13
1	0305	38	0.	.16	*	1	1125	138	0.	2.13	*	1	1945	238	0.	2.13
1	0310	39	0.	.17	*	1	1130	139	0.	2.13	*	1	1950	239	0.	2.13
1	0315	40	0.	.18	*	1	1135	140	0.	2.13	*	1	1955	240	0.	2.13
1	0320	41	0.	.19	*	1	1140	141	0.	2.13	*	1	2000	241	0.	2.13
1	0325	42	0.	.20	*	1	1145	142	0.	2.13	*	1	2005	242	0.	2.13
1	0330	43	0.	.22	*	1	1150	143	0.	2.13	*	1	2010	243	0.	2.13
1	0335	44	0.	.24	*	1	1155	144	0.	2.13	*	1	2015	244	0.	2.13
1	0340	45	0.	.26	*	1	1200	145	0.	2.13	*	1	2020	245	0.	2.13
1	0345	46	0.	.30	*	1	1205	146	0.	2.13	*	1	2025	246	0.	2.13
1	0350	47	0.	.35	*	1	1210	147	0.	2.13	*	1	2030	247	0.	2.13
1	0355	48	0.	.43	*	1	1215	148	0.	2.13	*	1	2035	248	0.	2.13
1	0400	49	0.	.58	*	1	1220	149	0.	2.13	*	1	2040	249	0.	2.13
1	0405	50	0.	.81	*	1	1225	150	0.	2.13	*	1	2045	250	0.	2.13
1	0410	51	0.	1.10	*	1	1230	151	0.	2.13	*	1	2050	251	0.	2.13
1	0415	52	0.	1.41	*	1	1235	152	0.	2.13	*	1	2055	252	0.	2.13
1	0420	53	0.	1.70	*	1	1240	153	0.	2.13	*	1	2100	253	0.	2.13
1	0425	54	0.	1.97	*	1	1245	154	0.	2.13	*	1	2105	254	0.	2.13
1	0430	55	13.	2.16	*	1	1250	155	0.	2.13	*	1	2110	255	0.	2.13
1	0435	56	33.	2.20	*	1	1255	156	0.	2.13	*	1	2115	256	0.	2.13
1	0440	57	23.	2.18	*	1	1300	157	0.	2.13	*	1	2120	257	0.	2.13
1	0445	58	21.	2.17	*	1	1305	158	0.	2.13	*	1	2125	258	0.	2.13
1	0450	59	17.	2.16	*	1	1310	159	0.	2.13	*	1	2130	259	0.	2.13
1	0455	60	15.	2.16	*	1	1315	160	0.	2.13	*	1	2135	260	0.	2.13
1	0500	61	13.	2.16	*	1	1320	161	0.	2.13	*	1	2140	261	0.	2.13
1	0505	62	11.	2.15	*	1	1325	162	0.	2.13	*	1	2145	262	0.	2.13
1	0510	63	9.	2.15	*	1	1330	163	0.	2.13	*	1	2150	263	0.	2.13
1	0515	64	8.	2.15	*	1	1335	164	0.	2.13	*	1	2155	264	0.	2.13
1	0520	65	7.	2.14	*	1	1340	165	0.	2.13	*	1	2200	265	0.	2.13
1	0525	66	6.	2.14	*	1	1345	166	0.	2.13	*	1	2205	266	0.	2.13
1	0530	67	5.	2.14	*	1	1350	167	0.	2.13	*	1	2210	267	0.	2.13
1	0535	68	4.	2.14	*	1	1355	168	0.	2.13	*	1	2215	268	0.	2.13
1	0540	69	4.	2.14	*	1	1400	169	0.	2.13	*	1	2220	269	0.	2.13
1	0545	70	3.	2.14	*	1	1405	170	0.	2.13	*	1	2225	270	0.	2.13
1	0550	71	3.	2.14	*	1	1410	171	0.	2.13	*	1	2230	271	0.	2.13
1	0555	72	3.	2.14	*	1	1415	172	0.	2.13	*	1	2235	272	0.	2.13
1	0600	73	2.	2.13	*	1	1420	173	0.	2.13	*	1	2240	273	0.	2.13
1	0605	74	2.	2.13	*	1	1425	174	0.	2.13	*	1	2245	274	0.	2.13
1	0610	75	2.	2.13	*	1	1430	175	0.	2.13	*	1	2250	275	0.	2.13
1	0615	76	2.	2.13	*	1	1435	176	0.	2.13	*	1	2255	276	0.	2.13
1	0620	77	1.	2.13	*	1	1440	177	0.	2.13	*	1	2300	277	0.	2.13
1	0625	78	1.	2.13	*	1	1445	178	0.	2.13	*	1	2305	278	0.	2.13
1	0630	79	1.	2.13	*	1	1450	179	0.	2.13	*	1	2310	279	0.	2.13
1	0635	80	1.	2.13	*	1	1455	180	0.	2.13	*	1	2315	280	0.	2.13
1	0640	81	1.	2.13	*	1	1500	181	0.	2.13	*	1	2320	281	0.	2.13
1	0645	82	0.	2.13	*	1	1505	182	0.	2.13	*	1	2325	282	0.	2.13

1	0650	83	0.	2.13	*	1	1510	183	0.	2.13	*	1	2330	283	0.	2.13
1	0655	84	0.	2.13	*	1	1515	184	0.	2.13	*	1	2335	284	0.	2.13
1	0700	85	0.	2.13	*	1	1520	185	0.	2.13	*	1	2340	285	0.	2.13
1	0705	86	0.	2.13	*	1	1525	186	0.	2.13	*	1	2345	286	0.	2.13
1	0710	87	0.	2.13	*	1	1530	187	0.	2.13	*	1	2350	287	0.	2.13
1	0715	88	0.	2.13	*	1	1535	188	0.	2.13	*	1	2355	288	0.	2.13
1	0720	89	0.	2.13	*	1	1540	189	0.	2.13	*	2	0000	289	0.	2.13
1	0725	90	0.	2.13	*	1	1545	190	0.	2.13	*	2	0005	290	0.	2.13
1	0730	91	0.	2.13	*	1	1550	191	0.	2.13	*	2	0010	291	0.	2.13
1	0735	92	0.	2.13	*	1	1555	192	0.	2.13	*	2	0015	292	0.	2.13
1	0740	93	0.	2.13	*	1	1600	193	0.	2.13	*	2	0020	293	0.	2.13
1	0745	94	0.	2.13	*	1	1605	194	0.	2.13	*	2	0025	294	0.	2.13
1	0750	95	0.	2.13	*	1	1610	195	0.	2.13	*	2	0030	295	0.	2.13
1	0755	96	0.	2.13	*	1	1615	196	0.	2.13	*	2	0035	296	0.	2.13
1	0800	97	0.	2.13	*	1	1620	197	0.	2.13	*	2	0040	297	0.	2.13
1	0805	98	0.	2.13	*	1	1625	198	0.	2.13	*	2	0045	298	0.	2.13
1	0810	99	0.	2.13	*	1	1630	199	0.	2.13	*	2	0050	299	0.	2.13
1	0815	100	0.	2.13	*	1	1635	200	0.	2.13	*	2	0055	300	0.	2.13
					*						*					

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)					
		(CFS)				
33.	4.58		3.	1.	1.	1.
		(INCHES)	.685	.685	.685	.685
		(AC-FT)	1.	1.	1.	1.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
(AC-FT)	(HR)				
2.	4.58	2.	2.	2.	2.

CUMULATIVE AREA = .04 SQ MI

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          **************
          *            *
 53 KK    *   Node11   *
          *            *
          **************
                 conflunce g1 and g2

 56 KO        OUTPUT CONTROL VARIABLES
                    IPRNT          2  PRINT CONTROL
                    IPLOT          0  PLOT CONTROL
                    QSCAL         0.  HYDROGRAPH PLOT SCALE

 55 HC        HYDROGRAPH COMBINATION
                    ICOMP          2  NUMBER OF HYDROGRAPHS TO COMBINE
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HYDROGRAPH AT STATION Node11
SUM OF 2 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	29.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	26.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	21.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	19.	1		1245	154	0.	1		1900	229	0.
1		0020	5	0.	1		0635	80	16.	1		1250	155	0.	1		1905	230	0.
1		0025	6	0.	1		0640	81	14.	1		1255	156	0.	1		1910	231	0.
1		0030	7	0.	1		0645	82	12.	1		1300	157	0.	1		1915	232	0.
1		0035	8	0.	1		0650	83	11.	1		1305	158	0.	1		1920	233	0.
1		0040	9	0.	1		0655	84	9.	1		1310	159	0.	1		1925	234	0.
1		0045	10	1.	1		0700	85	8.	1		1315	160	0.	1		1930	235	0.
1		0050	11	1.	1		0705	86	7.	1		1320	161	0.	1		1935	236	0.
1		0055	12	1.	1		0710	87	6.	1		1325	162	0.	1		1940	237	0.
1		0100	13	1.	1		0715	88	6.	1		1330	163	0.	1		1945	238	0.
1		0105	14	1.	1		0720	89	5.	1		1335	164	0.	1		1950	239	0.
1		0110	15	1.	1		0725	90	5.	1		1340	165	0.	1		1955	240	0.
1		0115	16	1.	1		0730	91	4.	1		1345	166	0.	1		2000	241	0.
1		0120	17	1.	1		0735	92	3.	1		1350	167	0.	1		2005	242	0.
1		0125	18	1.	1		0740	93	2.	1		1355	168	0.	1		2010	243	0.
1		0130	19	1.	1		0745	94	1.	1		1400	169	0.	1		2015	244	0.
1		0135	20	1.	1		0750	95	1.	1		1405	170	0.	1		2020	245	0.
1		0140	21	2.	1		0755	96	1.	1		1410	171	0.	1		2025	246	0.
1		0145	22	2.	1		0800	97	0.	1		1415	172	0.	1		2030	247	0.
1		0150	23	2.	1		0805	98	0.	1		1420	173	0.	1		2035	248	0.
1		0155	24	2.	1		0810	99	0.	1		1425	174	0.	1		2040	249	0.
1		0200	25	2.	1		0815	100	0.	1		1430	175	0.	1		2045	250	0.
1		0205	26	2.	1		0820	101	0.	1		1435	176	0.	1		2050	251	0.
1		0210	27	2.	1		0825	102	0.	1		1440	177	0.	1		2055	252	0.
1		0215	28	2.	1		0830	103	0.	1		1445	178	0.	1		2100	253	0.
1		0220	29	2.	1		0835	104	0.	1		1450	179	0.	1		2105	254	0.
1		0225	30	2.	1		0840	105	0.	1		1455	180	0.	1		2110	255	0.
1		0230	31	2.	1		0845	106	0.	1		1500	181	0.	1		2115	256	0.
1		0235	32	2.	1		0850	107	0.	1		1505	182	0.	1		2120	257	0.
1		0240	33	2.	1		0855	108	0.	1		1510	183	0.	1		2125	258	0.
1		0245	34	2.	1		0900	109	0.	1		1515	184	0.	1		2130	259	0.
1		0250	35	2.	1		0905	110	0.	1		1520	185	0.	1		2135	260	0.
1		0255	36	2.	1		0910	111	0.	1		1525	186	0.	1		2140	261	0.
1		0300	37	2.	1		0915	112	0.	1		1530	187	0.	1		2145	262	0.
1		0305	38	2.	1		0920	113	0.	1		1535	188	0.	1		2150	263	0.
1		0310	39	2.	1		0925	114	0.	1		1540	189	0.	1		2155	264	0.
1		0315	40	2.	1		0930	115	0.	1		1545	190	0.	1		2200	265	0.
1		0320	41	3.	1		0935	116	0.	1		1550	191	0.	1		2205	266	0.
1		0325	42	3.	1		0940	117	0.	1		1555	192	0.	1		2210	267	0.
1		0330	43	3.	1		0945	118	0.	1		1600	193	0.	1		2215	268	0.
1		0335	44	3.	1		0950	119	0.	1		1605	194	0.	1		2220	269	0.
1		0340	45	4.	1		0955	120	0.	1		1610	195	0.	1		2225	270	0.
1		0345	46	5.	1		1000	121	0.	1		1615	196	0.	1		2230	271	0.
1		0350	47	9.	1		1005	122	0.	1		1620	197	0.	1		2235	272	0.
1		0355	48	19.	1		1010	123	0.	1		1625	198	0.	1		2240	273	0.

1	0400	49	39.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	75.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	107.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	121.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	133.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	146.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	168.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	193.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	185.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	186.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	184.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	183.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	181.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	179.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	176.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	174.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	171.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	168.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	165.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	162.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	157.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	151.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	142.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	133.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	125.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	102.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	52.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
193.	4.58		59.	15.	14.	14.
		(INCHES)	1.210	1.216	1.216	1.216
		(AC-FT)	29.	29.	29.	29.

CUMULATIVE AREA = .45 SQ MI

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          *            *
57 KK     *   Node10   *
          *            *
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Route water from culverts to middle of subdivision

63 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE

HYDROGRAPH ROUTING DATA

59 RS STORAGE ROUTING

NSTPS	1	NUMBER OF SUBREACHES
ITYP	STOR	TYPE OF INITIAL CONDITION
RSVRIC	.00	INITIAL CONDITION
X	.00	WORKING R AND D COEFFICIENT

60 RC NORMAL DEPTH CHANNEL

ANL	.035	LEFT OVERBANK N-VALUE
ANCH	.035	MAIN CHANNEL N-VALUE
ANR	.035	RIGHT OVERBANK N-VALUE
RLNTH	650.	REACH LENGTH
SEL	.0022	ENERGY SLOPE
ELMAX	15.0	MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

CROSS-SECTION DATA

		--- LEFT OVERBANK ---			+ ------ MAIN CHANNEL -------		+ --- RIGHT OVERBANK ---		
62 RY	ELEVATION	15.00	11.00	10.00	5.85	5.85	10.00	11.00	15.00
61 RX	DISTANCE	.00	20.00	120.00	136.60	146.60	162.20	262.20	282.20

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COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	.09	.20	.34	.50	.69	.91	1.16	1.43	1.78
OUTFLOW	.00	6.32	21.74	46.35	81.01	126.67	184.32	254.90	339.36	449.06
ELEVATION	5.85	6.33	6.81	7.29	7.78	8.26	8.74	9.22	9.70	10.18
STORAGE	2.70	4.27	6.04	7.84	9.68	11.55	13.46	15.40	17.38	19.39
OUTFLOW	628.29	931.10	1390.33	1963.47	2640.18	3413.96	4280.30	5235.91	6278.27	7405.46
ELEVATION	10.67	11.15	11.63	12.11	12.59	13.07	13.56	14.04	14.52	15.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 255. TO 7405.
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

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HYDROGRAPH AT STATION Node10

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DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	5.8	*	1		0820	101	0.	.0	5.9	*	1		1640	201	0.	.0	5.8
1		0005	2	0.	.0	5.9	*	1		0825	102	0.	.0	5.9	*	1		1645	202	0.	.0	5.8
1		0010	3	0.	.0	5.9	*	1		0830	103	0.	.0	5.9	*	1		1650	203	0.	.0	5.8
1		0015	4	0.	.0	5.9	*	1		0835	104	0.	.0	5.9	*	1		1655	204	0.	.0	5.8
1		0020	5	0.	.0	5.9	*	1		0840	105	0.	.0	5.9	*	1		1700	205	0.	.0	5.8
1		0025	6	0.	.0	5.9	*	1		0845	106	0.	.0	5.9	*	1		1705	206	0.	.0	5.8
1		0030	7	0.	.0	5.9	*	1		0850	107	0.	.0	5.9	*	1		1710	207	0.	.0	5.8
1		0035	8	0.	.0	5.9	*	1		0855	108	0.	.0	5.9	*	1		1715	208	0.	.0	5.8
1		0040	9	0.	.0	5.9	*	1		0900	109	0.	.0	5.9	*	1		1720	209	0.	.0	5.8
1		0045	10	0.	.0	5.9	*	1		0905	110	0.	.0	5.9	*	1		1725	210	0.	.0	5.8
1		0050	11	0.	.0	5.9	*	1		0910	111	0.	.0	5.9	*	1		1730	211	0.	.0	5.8
1		0055	12	1.	.0	5.9	*	1		0915	112	0.	.0	5.9	*	1		1735	212	0.	.0	5.8

1	0100	13	1.	.0	5.9	*	1	0920	113	0.	.0	5.9	*	1	1740	213	0.	.0	5.8
1	0105	14	1.	.0	5.9	*	1	0925	114	0.	.0	5.9	*	1	1745	214	0.	.0	5.8
1	0110	15	1.	.0	5.9	*	1	0930	115	0.	.0	5.9	*	1	1750	215	0.	.0	5.8
1	0115	16	1.	.0	5.9	*	1	0935	116	0.	.0	5.9	*	1	1755	216	0.	.0	5.8
1	0120	17	1.	.0	5.9	*	1	0940	117	0.	.0	5.9	*	1	1800	217	0.	.0	5.8
1	0125	18	1.	.0	5.9	*	1	0945	118	0.	.0	5.9	*	1	1805	218	0.	.0	5.8
1	0130	19	1.	.0	5.9	*	1	0950	119	0.	.0	5.9	*	1	1810	219	0.	.0	5.8
1	0135	20	1.	.0	6.0	*	1	0955	120	0.	.0	5.9	*	1	1815	220	0.	.0	5.8
1	0140	21	1.	.0	6.0	*	1	1000	121	0.	.0	5.9	*	1	1820	221	0.	.0	5.8
1	0145	22	1.	.0	6.0	*	1	1005	122	0.	.0	5.9	*	1	1825	222	0.	.0	5.8
1	0150	23	2.	.0	6.0	*	1	1010	123	0.	.0	5.9	*	1	1830	223	0.	.0	5.8
1	0155	24	2.	.0	6.0	*	1	1015	124	0.	.0	5.9	*	1	1835	224	0.	.0	5.8
1	0200	25	2.	.0	6.0	*	1	1020	125	0.	.0	5.9	*	1	1840	225	0.	.0	5.8
1	0205	26	2.	.0	6.0	*	1	1025	126	0.	.0	5.9	*	1	1845	226	0.	.0	5.8
1	0210	27	2.	.0	6.0	*	1	1030	127	0.	.0	5.9	*	1	1850	227	0.	.0	5.8
1	0215	28	2.	.0	6.0	*	1	1035	128	0.	.0	5.9	*	1	1855	228	0.	.0	5.8
1	0220	29	2.	.0	6.0	*	1	1040	129	0.	.0	5.9	*	1	1900	229	0.	.0	5.8
1	0225	30	2.	.0	6.0	*	1	1045	130	0.	.0	5.9	*	1	1905	230	0.	.0	5.8
1	0230	31	2.	.0	6.0	*	1	1050	131	0.	.0	5.9	*	1	1910	231	0.	.0	5.8
1	0235	32	2.	.0	6.0	*	1	1055	132	0.	.0	5.9	*	1	1915	232	0.	.0	5.8
1	0240	33	2.	.0	6.0	*	1	1100	133	0.	.0	5.9	*	1	1920	233	0.	.0	5.8
1	0245	34	2.	.0	6.0	*	1	1105	134	0.	.0	5.9	*	1	1925	234	0.	.0	5.8
1	0250	35	2.	.0	6.0	*	1	1110	135	0.	.0	5.9	*	1	1930	235	0.	.0	5.8
1	0255	36	2.	.0	6.0	*	1	1115	136	0.	.0	5.8	*	1	1935	236	0.	.0	5.8
1	0300	37	2.	.0	6.0	*	1	1120	137	0.	.0	5.8	*	1	1940	237	0.	.0	5.8
1	0305	38	2.	.0	6.0	*	1	1125	138	0.	.0	5.8	*	1	1945	238	0.	.0	5.8
1	0310	39	2.	.0	6.0	*	1	1130	139	0.	.0	5.8	*	1	1950	239	0.	.0	5.8
1	0315	40	2.	.0	6.0	*	1	1135	140	0.	.0	5.8	*	1	1955	240	0.	.0	5.8
1	0320	41	2.	.0	6.0	*	1	1140	141	0.	.0	5.8	*	1	2000	241	0.	.0	5.8
1	0325	42	3.	.0	6.0	*	1	1145	142	0.	.0	5.8	*	1	2005	242	0.	.0	5.8
1	0330	43	3.	.0	6.1	*	1	1150	143	0.	.0	5.8	*	1	2010	243	0.	.0	5.8
1	0335	44	3.	.0	6.1	*	1	1155	144	0.	.0	5.8	*	1	2015	244	0.	.0	5.8
1	0340	45	3.	.0	6.1	*	1	1200	145	0.	.0	5.8	*	1	2020	245	0.	.0	5.8
1	0345	46	4.	.1	6.1	*	1	1205	146	0.	.0	5.8	*	1	2025	246	0.	.0	5.8
1	0350	47	5.	.1	6.3	*	1	1210	147	0.	.0	5.8	*	1	2030	247	0.	.0	5.8
1	0355	48	10.	.1	6.5	*	1	1215	148	0.	.0	5.8	*	1	2035	248	0.	.0	5.8
1	0400	49	23.	.2	6.8	*	1	1220	149	0.	.0	5.8	*	1	2040	249	0.	.0	5.8
1	0405	50	49.	.3	7.3	*	1	1225	150	0.	.0	5.8	*	1	2045	250	0.	.0	5.8
1	0410	51	85.	.5	7.8	*	1	1230	151	0.	.0	5.8	*	1	2050	251	0.	.0	5.8
1	0415	52	111.	.6	8.1	*	1	1235	152	0.	.0	5.8	*	1	2055	252	0.	.0	5.8
1	0420	53	125.	.7	8.2	*	1	1240	153	0.	.0	5.8	*	1	2100	253	0.	.0	5.8
1	0425	54	139.	.7	8.4	*	1	1245	154	0.	.0	5.8	*	1	2105	254	0.	.0	5.8
1	0430	55	156.	.8	8.5	*	1	1250	155	0.	.0	5.8	*	1	2110	255	0.	.0	5.8
1	0435	56	179.	.9	8.7	*	1	1255	156	0.	.0	5.8	*	1	2115	256	0.	.0	5.8
1	0440	57	188.	.9	8.8	*	1	1300	157	0.	.0	5.8	*	1	2120	257	0.	.0	5.8
1	0445	58	185.	.9	8.7	*	1	1305	158	0.	.0	5.8	*	1	2125	258	0.	.0	5.8
1	0450	59	185.	.9	8.7	*	1	1310	159	0.	.0	5.8	*	1	2130	259	0.	.0	5.8
1	0455	60	183.	.9	8.7	*	1	1315	160	0.	.0	5.8	*	1	2135	260	0.	.0	5.8
1	0500	61	182.	.9	8.7	*	1	1320	161	0.	.0	5.8	*	1	2140	261	0.	.0	5.8
1	0505	62	180.	.9	8.7	*	1	1325	162	0.	.0	5.8	*	1	2145	262	0.	.0	5.8
1	0510	63	178.	.9	8.7	*	1	1330	163	0.	.0	5.8	*	1	2150	263	0.	.0	5.8
1	0515	64	175.	.9	8.7	*	1	1335	164	0.	.0	5.8	*	1	2155	264	0.	.0	5.8
1	0520	65	173.	.9	8.6	*	1	1340	165	0.	.0	5.8	*	1	2200	265	0.	.0	5.8
1	0525	66	170.	.9	8.6	*	1	1345	166	0.	.0	5.8	*	1	2205	266	0.	.0	5.8
1	0530	67	167.	.8	8.6	*	1	1350	167	0.	.0	5.8	*	1	2210	267	0.	.0	5.8
1	0535	68	164.	.8	8.6	*	1	1355	168	0.	.0	5.8	*	1	2215	268	0.	.0	5.8
1	0540	69	160.	.8	8.5	*	1	1400	169	0.	.0	5.8	*	1	2220	269	0.	.0	5.8
1	0545	70	154.	.8	8.5	*	1	1405	170	0.	.0	5.8	*	1	2225	270	0.	.0	5.8

1	0550	71	147.	.8	8.4	*	1	1410	171	0.	.0	5.8	*	1	2230	271	0.	.0	5.8
1	0555	72	138.	.7	8.4	*	1	1415	172	0.	.0	5.8	*	1	2235	272	0.	.0	5.8
1	0600	73	129.	.7	8.3	*	1	1420	173	0.	.0	5.8	*	1	2240	273	0.	.0	5.8
1	0605	74	115.	.6	8.1	*	1	1425	174	0.	.0	5.8	*	1	2245	274	0.	.0	5.8
1	0610	75	81.	.5	7.8	*	1	1430	175	0.	.0	5.8	*	1	2250	275	0.	.0	5.8
1	0615	76	47.	.3	7.3	*	1	1435	176	0.	.0	5.8	*	1	2255	276	0.	.0	5.8
1	0620	77	32.	.3	7.0	*	1	1440	177	0.	.0	5.8	*	1	2300	277	0.	.0	5.8
1	0625	78	26.	.2	6.9	*	1	1445	178	0.	.0	5.8	*	1	2305	278	0.	.0	5.8
1	0630	79	21.	.2	6.8	*	1	1450	179	0.	.0	5.8	*	1	2310	279	0.	.0	5.8
1	0635	80	19.	.2	6.7	*	1	1455	180	0.	.0	5.8	*	1	2315	280	0.	.0	5.8
1	0640	81	17.	.2	6.7	*	1	1500	181	0.	.0	5.8	*	1	2320	281	0.	.0	5.8
1	0645	82	14.	.1	6.6	*	1	1505	182	0.	.0	5.8	*	1	2325	282	0.	.0	5.8
1	0650	83	13.	.1	6.5	*	1	1510	183	0.	.0	5.8	*	1	2330	283	0.	.0	5.8
1	0655	84	11.	.1	6.5	*	1	1515	184	0.	.0	5.8	*	1	2335	284	0.	.0	5.8
1	0700	85	10.	.1	6.4	*	1	1520	185	0.	.0	5.8	*	1	2340	285	0.	.0	5.8
1	0705	86	8.	.1	6.4	*	1	1525	186	0.	.0	5.8	*	1	2345	286	0.	.0	5.8
1	0710	87	7.	.1	6.4	*	1	1530	187	0.	.0	5.8	*	1	2350	287	0.	.0	5.8
1	0715	88	6.	.1	6.3	*	1	1535	188	0.	.0	5.8	*	1	2355	288	0.	.0	5.8
1	0720	89	6.	.1	6.3	*	1	1540	189	0.	.0	5.8	*	2	0000	289	0.	.0	5.8
1	0725	90	6.	.1	6.3	*	1	1545	190	0.	.0	5.8	*	2	0005	290	0.	.0	5.8
1	0730	91	5.	.1	6.2	*	1	1550	191	0.	.0	5.8	*	2	0010	291	0.	.0	5.8
1	0735	92	4.	.1	6.2	*	1	1555	192	0.	.0	5.8	*	2	0015	292	0.	.0	5.8
1	0740	93	4.	.0	6.1	*	1	1600	193	0.	.0	5.8	*	2	0020	293	0.	.0	5.8
1	0745	94	3.	.0	6.1	*	1	1605	194	0.	.0	5.8	*	2	0025	294	0.	.0	5.8
1	0750	95	2.	.0	6.0	*	1	1610	195	0.	.0	5.8	*	2	0030	295	0.	.0	5.8
1	0755	96	2.	.0	6.0	*	1	1615	196	0.	.0	5.8	*	2	0035	296	0.	.0	5.8
1	0800	97	1.	.0	5.9	*	1	1620	197	0.	.0	5.8	*	2	0040	297	0.	.0	5.8
1	0805	98	1.	.0	5.9	*	1	1625	198	0.	.0	5.8	*	2	0045	298	0.	.0	5.8
1	0810	99	1.	.0	5.9	*	1	1630	199	0.	.0	5.8	*	2	0050	299	0.	.0	5.8
1	0815	100	0.	.0	5.9	*	1	1635	200	0.	.0	5.8	*	2	0055	300	0.	.0	5.8
						*							*						

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)					
		(CFS)				
188.	4.67		59.	15.	14.	14.
		(INCHES)	1.210	1.216	1.216	1.216
		(AC-FT)	29.	29.	29.	29.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
(AC-FT)	(HR)				
1.	4.67	0.	0.	0.	0.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
(FEET)	(HR)				
8.77	4.67	7.04	6.15	6.14	6.14

CUMULATIVE AREA = .45 SQ MI

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              **************
              *            *
64 KK         *   DEVELO   *     PE RAINFALL FOR G3
              *            *
              **************
                          6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
                          THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
                         L =  .30  Kb = .072  Adj. Slope =   60.9

74 KO            OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

                SUBBASIN RUNOFF DATA

68 BA            SUBBASIN CHARACTERISTICS
                      TAREA        .01  SUBBASIN AREA

                 PRECIPITATION DATA

69 PB                 STORM       2.96  BASIN TOTAL PRECIPITATION

11 PI              INCREMENTAL PRECIPITATION PATTERN
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00       .00       .01       .01       .01       .01       .01       .01       .03
                      .03       .03       .05       .05       .05       .15       .15       .15       .03       .03
                      .03       .01       .01       .01       .01       .01       .01       .00       .00       .00
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00

70 LG            GREEN AND AMPT LOSS RATE
                      STRTL        .43  STARTING LOSS
                        DTH        .25  MOISTURE DEFICIT
                       PSIF       3.50  WETTING FRONT SUCTION
                      XKSAT        .51  HYDRAULIC CONDUCTIVITY
                      RTIMP      30.00  PERCENT IMPERVIOUS AREA

71 UC            CLARK UNITGRAPH
                         TC        .30  TIME OF CONCENTRATION
                          R        .50  STORAGE COEFFICIENT

72 UA            ACCUMULATED-AREA VS. TIME,  11 ORDINATES
                        .0       5.0      16.0      30.0      65.0      77.0      84.0      90.0      94.0      97.0
                     100.0

                                                    ***

                                          UNIT HYDROGRAPH PARAMETERS
                                     CLARK   TC=   .30 HR,       R=   .50 HR
                                    SNYDER   TP=   .24 HR,      CP=   .36

                                          UNIT HYDROGRAPH
                                     34 END-OF-PERIOD ORDINATES
                 2.        6.        9.        9.        8.        7.        6.        5.        4.        3.
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3.	2.	2.	2.	1.	1.	1.	1.	1.	1.
1.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.						

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HYDROGRAPH AT STATION DEVELO

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
								*								
1		0000	1	.00	.00	.00	0.	*	1		1230	151	.00	.00	.00	0.
1		0005	2	.01	.01	.00	0.	*	1		1235	152	.00	.00	.00	0.
1		0010	3	.01	.01	.00	0.	*	1		1240	153	.00	.00	.00	0.
1		0015	4	.01	.01	.00	0.	*	1		1245	154	.00	.00	.00	0.
1		0020	5	.01	.01	.00	0.	*	1		1250	155	.00	.00	.00	0.
1		0025	6	.01	.01	.00	0.	*	1		1255	156	.00	.00	.00	0.
1		0030	7	.01	.01	.00	0.	*	1		1300	157	.00	.00	.00	0.
1		0035	8	.01	.01	.00	0.	*	1		1305	158	.00	.00	.00	0.
1		0040	9	.01	.01	.00	0.	*	1		1310	159	.00	.00	.00	0.
1		0045	10	.01	.01	.00	0.	*	1		1315	160	.00	.00	.00	0.
1		0050	11	.01	.01	.00	0.	*	1		1320	161	.00	.00	.00	0.
1		0055	12	.01	.01	.00	0.	*	1		1325	162	.00	.00	.00	0.
1		0100	13	.01	.01	.00	0.	*	1		1330	163	.00	.00	.00	0.
1		0105	14	.01	.01	.00	0.	*	1		1335	164	.00	.00	.00	0.
1		0110	15	.01	.01	.00	0.	*	1		1340	165	.00	.00	.00	0.
1		0115	16	.01	.01	.00	0.	*	1		1345	166	.00	.00	.00	0.
1		0120	17	.01	.01	.00	0.	*	1		1350	167	.00	.00	.00	0.
1		0125	18	.01	.01	.00	0.	*	1		1355	168	.00	.00	.00	0.
1		0130	19	.01	.01	.00	0.	*	1		1400	169	.00	.00	.00	0.
1		0135	20	.01	.01	.00	0.	*	1		1405	170	.00	.00	.00	0.
1		0140	21	.01	.01	.00	0.	*	1		1410	171	.00	.00	.00	0.
1		0145	22	.01	.01	.00	0.	*	1		1415	172	.00	.00	.00	0.
1		0150	23	.01	.01	.00	0.	*	1		1420	173	.00	.00	.00	0.
1		0155	24	.01	.01	.00	0.	*	1		1425	174	.00	.00	.00	0.
1		0200	25	.01	.01	.00	0.	*	1		1430	175	.00	.00	.00	0.
1		0205	26	.01	.01	.00	0.	*	1		1435	176	.00	.00	.00	0.
1		0210	27	.01	.01	.00	0.	*	1		1440	177	.00	.00	.00	0.
1		0215	28	.01	.01	.00	0.	*	1		1445	178	.00	.00	.00	0.
1		0220	29	.01	.01	.00	0.	*	1		1450	179	.00	.00	.00	0.
1		0225	30	.01	.01	.00	0.	*	1		1455	180	.00	.00	.00	0.
1		0230	31	.01	.01	.00	0.	*	1		1500	181	.00	.00	.00	0.
1		0235	32	.01	.01	.00	0.	*	1		1505	182	.00	.00	.00	0.
1		0240	33	.01	.01	.00	0.	*	1		1510	183	.00	.00	.00	0.
1		0245	34	.01	.01	.00	0.	*	1		1515	184	.00	.00	.00	0.
1		0250	35	.02	.01	.01	0.	*	1		1520	185	.00	.00	.00	0.
1		0255	36	.02	.01	.01	0.	*	1		1525	186	.00	.00	.00	0.
1		0300	37	.02	.01	.01	0.	*	1		1530	187	.00	.00	.00	0.
1		0305	38	.02	.01	.01	0.	*	1		1535	188	.00	.00	.00	0.
1		0310	39	.02	.01	.01	0.	*	1		1540	189	.00	.00	.00	0.
1		0315	40	.02	.01	.01	0.	*	1		1545	190	.00	.00	.00	0.
1		0320	41	.08	.05	.02	0.	*	1		1550	191	.00	.00	.00	0.
1		0325	42	.08	.05	.02	1.	*	1		1555	192	.00	.00	.00	0.
1		0330	43	.08	.05	.02	1.	*	1		1600	193	.00	.00	.00	0.
1		0335	44	.16	.11	.05	1.	*	1		1605	194	.00	.00	.00	0.
1		0340	45	.16	.09	.07	1.	*	1		1610	195	.00	.00	.00	0.
1		0345	46	.16	.08	.08	2.	*	1		1615	196	.00	.00	.00	0.

1	0350	47	.45	.07	.38	3.	*	1	1620	197	.00	.00	.00	0.
1	0355	48	.45	.07	.39	5.	*	1	1625	198	.00	.00	.00	0.
1	0400	49	.45	.06	.39	9.	*	1	1630	199	.00	.00	.00	0.
1	0405	50	.08	.05	.02	11.	*	1	1635	200	.00	.00	.00	0.
1	0410	51	.08	.05	.02	12.	*	1	1640	201	.00	.00	.00	0.
1	0415	52	.08	.05	.02	11.	*	1	1645	202	.00	.00	.00	0.
1	0420	53	.02	.01	.01	9.	*	1	1650	203	.00	.00	.00	0.
1	0425	54	.02	.01	.01	8.	*	1	1655	204	.00	.00	.00	0.
1	0430	55	.02	.01	.01	7.	*	1	1700	205	.00	.00	.00	0.
1	0435	56	.02	.01	.01	6.	*	1	1705	206	.00	.00	.00	0.
1	0440	57	.02	.01	.01	5.	*	1	1710	207	.00	.00	.00	0.
1	0445	58	.02	.01	.01	4.	*	1	1715	208	.00	.00	.00	0.
1	0450	59	.01	.01	.00	4.	*	1	1720	209	.00	.00	.00	0.
1	0455	60	.01	.01	.00	3.	*	1	1725	210	.00	.00	.00	0.
1	0500	61	.01	.01	.00	3.	*	1	1730	211	.00	.00	.00	0.
1	0505	62	.01	.01	.00	2.	*	1	1735	212	.00	.00	.00	0.
1	0510	63	.01	.01	.00	2.	*	1	1740	213	.00	.00	.00	0.
1	0515	64	.01	.01	.00	2.	*	1	1745	214	.00	.00	.00	0.
1	0520	65	.01	.01	.00	2.	*	1	1750	215	.00	.00	.00	0.
1	0525	66	.01	.01	.00	1.	*	1	1755	216	.00	.00	.00	0.
1	0530	67	.01	.01	.00	1.	*	1	1800	217	.00	.00	.00	0.
1	0535	68	.01	.01	.00	1.	*	1	1805	218	.00	.00	.00	0.
1	0540	69	.01	.01	.00	1.	*	1	1810	219	.00	.00	.00	0.
1	0545	70	.01	.01	.00	1.	*	1	1815	220	.00	.00	.00	0.
1	0550	71	.01	.01	.00	1.	*	1	1820	221	.00	.00	.00	0.
1	0555	72	.01	.01	.00	1.	*	1	1825	222	.00	.00	.00	0.
1	0600	73	.01	.01	.00	1.	*	1	1830	223	.00	.00	.00	0.
1	0605	74	.00	.00	.00	0.	*	1	1835	224	.00	.00	.00	0.
1	0610	75	.00	.00	.00	0.	*	1	1840	225	.00	.00	.00	0.
1	0615	76	.00	.00	.00	0.	*	1	1845	226	.00	.00	.00	0.
1	0620	77	.00	.00	.00	0.	*	1	1850	227	.00	.00	.00	0.
1	0625	78	.00	.00	.00	0.	*	1	1855	228	.00	.00	.00	0.
1	0630	79	.00	.00	.00	0.	*	1	1900	229	.00	.00	.00	0.
1	0635	80	.00	.00	.00	0.	*	1	1905	230	.00	.00	.00	0.
1	0640	81	.00	.00	.00	0.	*	1	1910	231	.00	.00	.00	0.
1	0645	82	.00	.00	.00	0.	*	1	1915	232	.00	.00	.00	0.
1	0650	83	.00	.00	.00	0.	*	1	1920	233	.00	.00	.00	0.
1	0655	84	.00	.00	.00	0.	*	1	1925	234	.00	.00	.00	0.
1	0700	85	.00	.00	.00	0.	*	1	1930	235	.00	.00	.00	0.
1	0705	86	.00	.00	.00	0.	*	1	1935	236	.00	.00	.00	0.
1	0710	87	.00	.00	.00	0.	*	1	1940	237	.00	.00	.00	0.
1	0715	88	.00	.00	.00	0.	*	1	1945	238	.00	.00	.00	0.
1	0720	89	.00	.00	.00	0.	*	1	1950	239	.00	.00	.00	0.
1	0725	90	.00	.00	.00	0.	*	1	1955	240	.00	.00	.00	0.
1	0730	91	.00	.00	.00	0.	*	1	2000	241	.00	.00	.00	0.
1	0735	92	.00	.00	.00	0.	*	1	2005	242	.00	.00	.00	0.
1	0740	93	.00	.00	.00	0.	*	1	2010	243	.00	.00	.00	0.
1	0745	94	.00	.00	.00	0.	*	1	2015	244	.00	.00	.00	0.
1	0750	95	.00	.00	.00	0.	*	1	2020	245	.00	.00	.00	0.
1	0755	96	.00	.00	.00	0.	*	1	2025	246	.00	.00	.00	0.
1	0800	97	.00	.00	.00	0.	*	1	2030	247	.00	.00	.00	0.
1	0805	98	.00	.00	.00	0.	*	1	2035	248	.00	.00	.00	0.
1	0810	99	.00	.00	.00	0.	*	1	2040	249	.00	.00	.00	0.
1	0815	100	.00	.00	.00	0.	*	1	2045	250	.00	.00	.00	0.
1	0820	101	.00	.00	.00	0.	*	1	2050	251	.00	.00	.00	0.
1	0825	102	.00	.00	.00	0.	*	1	2055	252	.00	.00	.00	0.
1	0830	103	.00	.00	.00	0.	*	1	2100	253	.00	.00	.00	0.
1	0835	104	.00	.00	.00	0.	*	1	2105	254	.00	.00	.00	0.

1	0840	105	.00	.00	.00	0.	*	1	2110	255	.00	.00	.00	0.
1	0845	106	.00	.00	.00	0.	*	1	2115	256	.00	.00	.00	0.
1	0850	107	.00	.00	.00	0.	*	1	2120	257	.00	.00	.00	0.
1	0855	108	.00	.00	.00	0.	*	1	2125	258	.00	.00	.00	0.
1	0900	109	.00	.00	.00	0.	*	1	2130	259	.00	.00	.00	0.
1	0905	110	.00	.00	.00	0.	*	1	2135	260	.00	.00	.00	0.
1	0910	111	.00	.00	.00	0.	*	1	2140	261	.00	.00	.00	0.
1	0915	112	.00	.00	.00	0.	*	1	2145	262	.00	.00	.00	0.
1	0920	113	.00	.00	.00	0.	*	1	2150	263	.00	.00	.00	0.
1	0925	114	.00	.00	.00	0.	*	1	2155	264	.00	.00	.00	0.
1	0930	115	.00	.00	.00	0.	*	1	2200	265	.00	.00	.00	0.
1	0935	116	.00	.00	.00	0.	*	1	2205	266	.00	.00	.00	0.
1	0940	117	.00	.00	.00	0.	*	1	2210	267	.00	.00	.00	0.
1	0945	118	.00	.00	.00	0.	*	1	2215	268	.00	.00	.00	0.
1	0950	119	.00	.00	.00	0.	*	1	2220	269	.00	.00	.00	0.
1	0955	120	.00	.00	.00	0.	*	1	2225	270	.00	.00	.00	0.
1	1000	121	.00	.00	.00	0.	*	1	2230	271	.00	.00	.00	0.
1	1005	122	.00	.00	.00	0.	*	1	2235	272	.00	.00	.00	0.
1	1010	123	.00	.00	.00	0.	*	1	2240	273	.00	.00	.00	0.
1	1015	124	.00	.00	.00	0.	*	1	2245	274	.00	.00	.00	0.
1	1020	125	.00	.00	.00	0.	*	1	2250	275	.00	.00	.00	0.
1	1025	126	.00	.00	.00	0.	*	1	2255	276	.00	.00	.00	0.
1	1030	127	.00	.00	.00	0.	*	1	2300	277	.00	.00	.00	0.
1	1035	128	.00	.00	.00	0.	*	1	2305	278	.00	.00	.00	0.
1	1040	129	.00	.00	.00	0.	*	1	2310	279	.00	.00	.00	0.
1	1045	130	.00	.00	.00	0.	*	1	2315	280	.00	.00	.00	0.
1	1050	131	.00	.00	.00	0.	*	1	2320	281	.00	.00	.00	0.
1	1055	132	.00	.00	.00	0.	*	1	2325	282	.00	.00	.00	0.
1	1100	133	.00	.00	.00	0.	*	1	2330	283	.00	.00	.00	0.
1	1105	134	.00	.00	.00	0.	*	1	2335	284	.00	.00	.00	0.
1	1110	135	.00	.00	.00	0.	*	1	2340	285	.00	.00	.00	0.
1	1115	136	.00	.00	.00	0.	*	1	2345	286	.00	.00	.00	0.
1	1120	137	.00	.00	.00	0.	*	1	2350	287	.00	.00	.00	0.
1	1125	138	.00	.00	.00	0.	*	1	2355	288	.00	.00	.00	0.
1	1130	139	.00	.00	.00	0.	*	2	0000	289	.00	.00	.00	0.
1	1135	140	.00	.00	.00	0.	*	2	0005	290	.00	.00	.00	0.
1	1140	141	.00	.00	.00	0.	*	2	0010	291	.00	.00	.00	0.
1	1145	142	.00	.00	.00	0.	*	2	0015	292	.00	.00	.00	0.
1	1150	143	.00	.00	.00	0.	*	2	0020	293	.00	.00	.00	0.
1	1155	144	.00	.00	.00	0.	*	2	0025	294	.00	.00	.00	0.
1	1200	145	.00	.00	.00	0.	*	2	0030	295	.00	.00	.00	0.
1	1205	146	.00	.00	.00	0.	*	2	0035	296	.00	.00	.00	0.
1	1210	147	.00	.00	.00	0.	*	2	0040	297	.00	.00	.00	0.
1	1215	148	.00	.00	.00	0.	*	2	0045	298	.00	.00	.00	0.
1	1220	149	.00	.00	.00	0.	*	2	0050	299	.00	.00	.00	0.
1	1225	150	.00	.00	.00	0.	*	2	0055	300	.00	.00	.00	0.
							*							

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TOTAL RAINFALL = 2.96, TOTAL LOSS = 1.27, TOTAL EXCESS = 1.69

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
12.	4.17		2.	0.	0.	0.
		(INCHES)	1.671	1.683	1.683	1.683
		(AC-FT)	1.	1.	1.	1.

CUMULATIVE AREA = .01 SQ MI

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          **************
          *            *
 75 KK    *   Node8    *
          *            *
          **************
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Route area through subdivision to remove retention storage

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 80 KO        OUTPUT CONTROL VARIABLES
                    IPRNT          2  PRINT CONTROL
                    IPLOT          0  PLOT CONTROL
                    QSCAL         0.  HYDROGRAPH PLOT SCALE

            HYDROGRAPH ROUTING DATA

 77 RS        STORAGE ROUTING
                    NSTPS          1  NUMBER OF SUBREACHES
                     ITYP       STOR  TYPE OF INITIAL CONDITION
                   RSVRIC        .00  INITIAL CONDITION
                        X        .00 WORKING R AND D COEFFICIENT

 78 SV          STORAGE        .0       .6       .6       .6       .6       .6       .6

 79 SQ        DISCHARGE        0.       0.      10.      20.      30.      40.      50.
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*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 0. TO 50.
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

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HYDROGRAPH AT STATION Node8

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DA	MON	HRMN	ORD	OUTFLOW	STORAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE
1		0000	1	0.	.00	*	1		0820	101	0.	.58	*	1		1640	201	0.	.58
1		0005	2	0.	.00	*	1		0825	102	0.	.58	*	1		1645	202	0.	.58
1		0010	3	0.	.00	*	1		0830	103	0.	.58	*	1		1650	203	0.	.58
1		0015	4	0.	.00	*	1		0835	104	0.	.58	*	1		1655	204	0.	.58
1		0020	5	0.	.00	*	1		0840	105	0.	.58	*	1		1700	205	0.	.58
1		0025	6	0.	.00	*	1		0845	106	0.	.58	*	1		1705	206	0.	.58
1		0030	7	0.	.00	*	1		0850	107	0.	.58	*	1		1710	207	0.	.58
1		0035	8	0.	.00	*	1		0855	108	0.	.58	*	1		1715	208	0.	.58
1		0040	9	0.	.00	*	1		0900	109	0.	.58	*	1		1720	209	0.	.58
1		0045	10	0.	.00	*	1		0905	110	0.	.58	*	1		1725	210	0.	.58
1		0050	11	0.	.01	*	1		0910	111	0.	.58	*	1		1730	211	0.	.58

1	0055	12	0.	.01	*	1	0915	112	0.	.58	*	1	1735	212	0.	.58
1	0100	13	0.	.01	*	1	0920	113	0.	.58	*	1	1740	213	0.	.58
1	0105	14	0.	.01	*	1	0925	114	0.	.58	*	1	1745	214	0.	.58
1	0110	15	0.	.01	*	1	0930	115	0.	.58	*	1	1750	215	0.	.58
1	0115	16	0.	.01	*	1	0935	116	0.	.58	*	1	1755	216	0.	.58
1	0120	17	0.	.01	*	1	0940	117	0.	.58	*	1	1800	217	0.	.58
1	0125	18	0.	.01	*	1	0945	118	0.	.58	*	1	1805	218	0.	.58
1	0130	19	0.	.01	*	1	0950	119	0.	.58	*	1	1810	219	0.	.58
1	0135	20	0.	.02	*	1	0955	120	0.	.58	*	1	1815	220	0.	.58
1	0140	21	0.	.02	*	1	1000	121	0.	.58	*	1	1820	221	0.	.58
1	0145	22	0.	.02	*	1	1005	122	0.	.58	*	1	1825	222	0.	.58
1	0150	23	0.	.02	*	1	1010	123	0.	.58	*	1	1830	223	0.	.58
1	0155	24	0.	.02	*	1	1015	124	0.	.58	*	1	1835	224	0.	.58
1	0200	25	0.	.02	*	1	1020	125	0.	.58	*	1	1840	225	0.	.58
1	0205	26	0.	.02	*	1	1025	126	0.	.58	*	1	1845	226	0.	.58
1	0210	27	0.	.02	*	1	1030	127	0.	.58	*	1	1850	227	0.	.58
1	0215	28	0.	.03	*	1	1035	128	0.	.58	*	1	1855	228	0.	.58
1	0220	29	0.	.03	*	1	1040	129	0.	.58	*	1	1900	229	0.	.58
1	0225	30	0.	.03	*	1	1045	130	0.	.58	*	1	1905	230	0.	.58
1	0230	31	0.	.03	*	1	1050	131	0.	.58	*	1	1910	231	0.	.58
1	0235	32	0.	.03	*	1	1055	132	0.	.58	*	1	1915	232	0.	.58
1	0240	33	0.	.03	*	1	1100	133	0.	.58	*	1	1920	233	0.	.58
1	0245	34	0.	.03	*	1	1105	134	0.	.58	*	1	1925	234	0.	.58
1	0250	35	0.	.04	*	1	1110	135	0.	.58	*	1	1930	235	0.	.58
1	0255	36	0.	.04	*	1	1115	136	0.	.58	*	1	1935	236	0.	.58
1	0300	37	0.	.04	*	1	1120	137	0.	.58	*	1	1940	237	0.	.58
1	0305	38	0.	.04	*	1	1125	138	0.	.58	*	1	1945	238	0.	.58
1	0310	39	0.	.04	*	1	1130	139	0.	.58	*	1	1950	239	0.	.58
1	0315	40	0.	.05	*	1	1135	140	0.	.58	*	1	1955	240	0.	.58
1	0320	41	0.	.05	*	1	1140	141	0.	.58	*	1	2000	241	0.	.58
1	0325	42	0.	.05	*	1	1145	142	0.	.58	*	1	2005	242	0.	.58
1	0330	43	0.	.06	*	1	1150	143	0.	.58	*	1	2010	243	0.	.58
1	0335	44	0.	.06	*	1	1155	144	0.	.58	*	1	2015	244	0.	.58
1	0340	45	0.	.07	*	1	1200	145	0.	.58	*	1	2020	245	0.	.58
1	0345	46	0.	.08	*	1	1205	146	0.	.58	*	1	2025	246	0.	.58
1	0350	47	0.	.09	*	1	1210	147	0.	.58	*	1	2030	247	0.	.58
1	0355	48	0.	.12	*	1	1215	148	0.	.58	*	1	2035	248	0.	.58
1	0400	49	0.	.17	*	1	1220	149	0.	.58	*	1	2040	249	0.	.58
1	0405	50	0.	.24	*	1	1225	150	0.	.58	*	1	2045	250	0.	.58
1	0410	51	0.	.32	*	1	1230	151	0.	.58	*	1	2050	251	0.	.58
1	0415	52	0.	.40	*	1	1235	152	0.	.58	*	1	2055	252	0.	.58
1	0420	53	0.	.46	*	1	1240	153	0.	.58	*	1	2100	253	0.	.58
1	0425	54	0.	.53	*	1	1245	154	0.	.58	*	1	2105	254	0.	.58
1	0430	55	0.	.58	*	1	1250	155	0.	.58	*	1	2110	255	0.	.58
1	0435	56	8.	.60	*	1	1255	156	0.	.58	*	1	2115	256	0.	.58
1	0440	57	5.	.59	*	1	1300	157	0.	.58	*	1	2120	257	0.	.58
1	0445	58	5.	.59	*	1	1305	158	0.	.58	*	1	2125	258	0.	.58
1	0450	59	4.	.59	*	1	1310	159	0.	.58	*	1	2130	259	0.	.58
1	0455	60	3.	.59	*	1	1315	160	0.	.58	*	1	2135	260	0.	.58
1	0500	61	3.	.59	*	1	1320	161	0.	.58	*	1	2140	261	0.	.58
1	0505	62	3.	.59	*	1	1325	162	0.	.58	*	1	2145	262	0.	.58
1	0510	63	2.	.58	*	1	1330	163	0.	.58	*	1	2150	263	0.	.58
1	0515	64	2.	.58	*	1	1335	164	0.	.58	*	1	2155	264	0.	.58
1	0520	65	2.	.58	*	1	1340	165	0.	.58	*	1	2200	265	0.	.58
1	0525	66	1.	.58	*	1	1345	166	0.	.58	*	1	2205	266	0.	.58
1	0530	67	1.	.58	*	1	1350	167	0.	.58	*	1	2210	267	0.	.58
1	0535	68	1.	.58	*	1	1355	168	0.	.58	*	1	2215	268	0.	.58
1	0540	69	1.	.58	*	1	1400	169	0.	.58	*	1	2220	269	0.	.58

1	0545	70	1.	.58	*	1	1405	170	0.	.58	*	1	2225	270	0.	.58
1	0550	71	1.	.58	*	1	1410	171	0.	.58	*	1	2230	271	0.	.58
1	0555	72	1.	.58	*	1	1415	172	0.	.58	*	1	2235	272	0.	.58
1	0600	73	1.	.58	*	1	1420	173	0.	.58	*	1	2240	273	0.	.58
1	0605	74	1.	.58	*	1	1425	174	0.	.58	*	1	2245	274	0.	.58
1	0610	75	0.	.58	*	1	1430	175	0.	.58	*	1	2250	275	0.	.58
1	0615	76	0.	.58	*	1	1435	176	0.	.58	*	1	2255	276	0.	.58
1	0620	77	0.	.58	*	1	1440	177	0.	.58	*	1	2300	277	0.	.58
1	0625	78	0.	.58	*	1	1445	178	0.	.58	*	1	2305	278	0.	.58
1	0630	79	0.	.58	*	1	1450	179	0.	.58	*	1	2310	279	0.	.58
1	0635	80	0.	.58	*	1	1455	180	0.	.58	*	1	2315	280	0.	.58
1	0640	81	0.	.58	*	1	1500	181	0.	.58	*	1	2320	281	0.	.58
1	0645	82	0.	.58	*	1	1505	182	0.	.58	*	1	2325	282	0.	.58
1	0650	83	0.	.58	*	1	1510	183	0.	.58	*	1	2330	283	0.	.58
1	0655	84	0.	.58	*	1	1515	184	0.	.58	*	1	2335	284	0.	.58
1	0700	85	0.	.58	*	1	1520	185	0.	.58	*	1	2340	285	0.	.58
1	0705	86	0.	.58	*	1	1525	186	0.	.58	*	1	2345	286	0.	.58
1	0710	87	0.	.58	*	1	1530	187	0.	.58	*	1	2350	287	0.	.58
1	0715	88	0.	.58	*	1	1535	188	0.	.58	*	1	2355	288	0.	.58
1	0720	89	0.	.58	*	1	1540	189	0.	.58	*	2	0000	289	0.	.58
1	0725	90	0.	.58	*	1	1545	190	0.	.58	*	2	0005	290	0.	.58
1	0730	91	0.	.58	*	1	1550	191	0.	.58	*	2	0010	291	0.	.58
1	0735	92	0.	.58	*	1	1555	192	0.	.58	*	2	0015	292	0.	.58
1	0740	93	0.	.58	*	1	1600	193	0.	.58	*	2	0020	293	0.	.58
1	0745	94	0.	.58	*	1	1605	194	0.	.58	*	2	0025	294	0.	.58
1	0750	95	0.	.58	*	1	1610	195	0.	.58	*	2	0030	295	0.	.58
1	0755	96	0.	.58	*	1	1615	196	0.	.58	*	2	0035	296	0.	.58
1	0800	97	0.	.58	*	1	1620	197	0.	.58	*	2	0040	297	0.	.58
1	0805	98	0.	.58	*	1	1625	198	0.	.58	*	2	0045	298	0.	.58
1	0810	99	0.	.58	*	1	1630	199	0.	.58	*	2	0050	299	0.	.58
1	0815	100	0.	.58	*	1	1635	200	0.	.58	*	2	0055	300	0.	.58
					*						*					

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
8.	4.58		1.	0.	0.	0.
		(INCHES)	.596	.596	.596	.596
		(AC-FT)	0.	0.	0.	0.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
1.	4.58	1.	1.	0.	0.

CUMULATIVE AREA = .01 SQ MI

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          *            *
 81 KK    *   Node13   *
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*           *
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              confluence g1-g2 with g3

83 KO         OUTPUT CONTROL VARIABLES
                    IPRNT          2  PRINT CONTROL
                    IPLOT          0  PLOT CONTROL
                    QSCAL         0.  HYDROGRAPH PLOT SCALE

85 KO         OUTPUT CONTROL VARIABLES
                    IPRNT          2  PRINT CONTROL
                    IPLOT          0  PLOT CONTROL
                    QSCAL         0.  HYDROGRAPH PLOT SCALE

84 HC         HYDROGRAPH COMBINATION
                    ICOMP          2  NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION Node13
SUM OF 2 HYDROGRAPHS

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	47.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	33.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	26.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	22.	1		1245	154	0.	1		1900	229	0.
1		0020	5	0.	1		0635	80	19.	1		1250	155	0.	1		1905	230	0.
1		0025	6	0.	1		0640	81	17.	1		1255	156	0.	1		1910	231	0.
1		0030	7	0.	1		0645	82	15.	1		1300	157	0.	1		1915	232	0.
1		0035	8	0.	1		0650	83	13.	1		1305	158	0.	1		1920	233	0.
1		0040	9	0.	1		0655	84	11.	1		1310	159	0.	1		1925	234	0.
1		0045	10	0.	1		0700	85	10.	1		1315	160	0.	1		1930	235	0.
1		0050	11	0.	1		0705	86	8.	1		1320	161	0.	1		1935	236	0.
1		0055	12	1.	1		0710	87	7.	1		1325	162	0.	1		1940	237	0.
1		0100	13	1.	1		0715	88	7.	1		1330	163	0.	1		1945	238	0.
1		0105	14	1.	1		0720	89	6.	1		1335	164	0.	1		1950	239	0.
1		0110	15	1.	1		0725	90	6.	1		1340	165	0.	1		1955	240	0.
1		0115	16	1.	1		0730	91	5.	1		1345	166	0.	1		2000	241	0.
1		0120	17	1.	1		0735	92	4.	1		1350	167	0.	1		2005	242	0.
1		0125	18	1.	1		0740	93	4.	1		1355	168	0.	1		2010	243	0.
1		0130	19	1.	1		0745	94	3.	1		1400	169	0.	1		2015	244	0.
1		0135	20	1.	1		0750	95	2.	1		1405	170	0.	1		2020	245	0.
1		0140	21	1.	1		0755	96	2.	1		1410	171	0.	1		2025	246	0.
1		0145	22	1.	1		0800	97	1.	1		1415	172	0.	1		2030	247	0.
1		0150	23	2.	1		0805	98	1.	1		1420	173	0.	1		2035	248	0.
1		0155	24	2.	1		0810	99	1.	1		1425	174	0.	1		2040	249	0.
1		0200	25	2.	1		0815	100	0.	1		1430	175	0.	1		2045	250	0.
1		0205	26	2.	1		0820	101	0.	1		1435	176	0.	1		2050	251	0.
1		0210	27	2.	1		0825	102	0.	1		1440	177	0.	1		2055	252	0.
1		0215	28	2.	1		0830	103	0.	1		1445	178	0.	1		2100	253	0.
1		0220	29	2.	1		0835	104	0.	1		1450	179	0.	1		2105	254	0.
1		0225	30	2.	1		0840	105	0.	1		1455	180	0.	1		2110	255	0.

1	0230	31	2.	*	1	0845	106	0.	*	1	1500	181	0.	*	1	2115	256	0.
1	0235	32	2.	*	1	0850	107	0.	*	1	1505	182	0.	*	1	2120	257	0.
1	0240	33	2.	*	1	0855	108	0.	*	1	1510	183	0.	*	1	2125	258	0.
1	0245	34	2.	*	1	0900	109	0.	*	1	1515	184	0.	*	1	2130	259	0.
1	0250	35	2.	*	1	0905	110	0.	*	1	1520	185	0.	*	1	2135	260	0.
1	0255	36	2.	*	1	0910	111	0.	*	1	1525	186	0.	*	1	2140	261	0.
1	0300	37	2.	*	1	0915	112	0.	*	1	1530	187	0.	*	1	2145	262	0.
1	0305	38	2.	*	1	0920	113	0.	*	1	1535	188	0.	*	1	2150	263	0.
1	0310	39	2.	*	1	0925	114	0.	*	1	1540	189	0.	*	1	2155	264	0.
1	0315	40	2.	*	1	0930	115	0.	*	1	1545	190	0.	*	1	2200	265	0.
1	0320	41	2.	*	1	0935	116	0.	*	1	1550	191	0.	*	1	2205	266	0.
1	0325	42	3.	*	1	0940	117	0.	*	1	1555	192	0.	*	1	2210	267	0.
1	0330	43	3.	*	1	0945	118	0.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	3.	*	1	0950	119	0.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	3.	*	1	0955	120	0.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	4.	*	1	1000	121	0.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	5.	*	1	1005	122	0.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	10.	*	1	1010	123	0.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	23.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	49.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	85.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	111.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	125.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	139.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	156.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	187.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	193.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	190.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	189.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	187.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	185.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	182.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	180.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	177.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	174.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	171.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	168.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	165.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	161.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	155.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	147.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	139.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	130.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	115.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	81.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)					
		(CFS)				
193.	4.67		60.	15.	14.	14.
		(INCHES)	1.197	1.202	1.202	1.202
		(AC-FT)	30.	30.	30.	30.

CUMULATIVE AREA = .46 SQ MI

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*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

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          *            *
 86 KK    *   Node10   *
          *            *
          **************
                       Route water from  middle of subdivision to old mcdowell

 92 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

            HYDROGRAPH ROUTING DATA

 88 RS          STORAGE ROUTING
                      NSTPS          1  NUMBER OF SUBREACHES
                       ITYP       STOR  TYPE OF INITIAL CONDITION
                     RSVRIC        .00  INITIAL CONDITION
                          X        .00 WORKING R AND D COEFFICIENT

 89 RC          NORMAL DEPTH CHANNEL
                        ANL       .035  LEFT OVERBANK N-VALUE
                       ANCH       .035  MAIN CHANNEL N-VALUE
                        ANR       .035  RIGHT OVERBANK N-VALUE
                      RLNTH       650.  REACH LENGTH
                        SEL      .0022  ENERGY SLOPE
                      ELMAX       15.0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                      CROSS-SECTION DATA
                        --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
 91 RY        ELEVATION    15.00    11.00    10.00     5.85     5.85    10.00    11.00    15.00
 90 RX        DISTANCE       .00    20.00   120.00   136.60   146.60   162.20   262.20   282.20

                                                  ***

                                      COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

          STORAGE       .00      .09      .20      .34      .50      .69      .91     1.16     1.43     1.78
          OUTFLOW       .00     6.32    21.74    46.35    81.01   126.67   184.32   254.90   339.36   449.06
        ELEVATION      5.85     6.33     6.81     7.29     7.78     8.26     8.74     9.22     9.70    10.18

          STORAGE      2.70     4.27     6.04     7.84     9.68    11.55    13.46    15.40    17.38    19.39
          OUTFLOW    628.29   931.10  1390.33  1963.47  2640.18  3413.96  4280.30  5235.91  6278.27  7405.46
        ELEVATION     10.67    11.15    11.63    12.11    12.59    13.07    13.56    14.04    14.52    15.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN      255. TO     7405.
                THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
                THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

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HYDROGRAPH AT STATION Node10

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	5.8	1		0820	101	1.	.0	5.9	1		1640	201	0.	.0	5.8
1		0005	2	0.	.0	5.9	1		0825	102	1.	.0	5.9	1		1645	202	0.	.0	5.8
1		0010	3	0.	.0	5.9	1		0830	103	0.	.0	5.9	1		1650	203	0.	.0	5.8
1		0015	4	0.	.0	5.9	1		0835	104	0.	.0	5.9	1		1655	204	0.	.0	5.8
1		0020	5	0.	.0	5.9	1		0840	105	0.	.0	5.9	1		1700	205	0.	.0	5.8
1		0025	6	0.	.0	5.9	1		0845	106	0.	.0	5.9	1		1705	206	0.	.0	5.8
1		0030	7	0.	.0	5.9	1		0850	107	0.	.0	5.9	1		1710	207	0.	.0	5.8
1		0035	8	0.	.0	5.9	1		0855	108	0.	.0	5.9	1		1715	208	0.	.0	5.8
1		0040	9	0.	.0	5.9	1		0900	109	0.	.0	5.9	1		1720	209	0.	.0	5.8
1		0045	10	0.	.0	5.9	1		0905	110	0.	.0	5.9	1		1725	210	0.	.0	5.8
1		0050	11	0.	.0	5.9	1		0910	111	0.	.0	5.9	1		1730	211	0.	.0	5.8
1		0055	12	0.	.0	5.9	1		0915	112	0.	.0	5.9	1		1735	212	0.	.0	5.8
1		0100	13	0.	.0	5.9	1		0920	113	0.	.0	5.9	1		1740	213	0.	.0	5.8
1		0105	14	1.	.0	5.9	1		0925	114	0.	.0	5.9	1		1745	214	0.	.0	5.8
1		0110	15	1.	.0	5.9	1		0930	115	0.	.0	5.9	1		1750	215	0.	.0	5.8
1		0115	16	1.	.0	5.9	1		0935	116	0.	.0	5.9	1		1755	216	0.	.0	5.8
1		0120	17	1.	.0	5.9	1		0940	117	0.	.0	5.9	1		1800	217	0.	.0	5.8
1		0125	18	1.	.0	5.9	1		0945	118	0.	.0	5.9	1		1805	218	0.	.0	5.8
1		0130	19	1.	.0	5.9	1		0950	119	0.	.0	5.9	1		1810	219	0.	.0	5.8
1		0135	20	1.	.0	5.9	1		0955	120	0.	.0	5.9	1		1815	220	0.	.0	5.8
1		0140	21	1.	.0	5.9	1		1000	121	0.	.0	5.9	1		1820	221	0.	.0	5.8
1		0145	22	1.	.0	6.0	1		1005	122	0.	.0	5.9	1		1825	222	0.	.0	5.8
1		0150	23	1.	.0	6.0	1		1010	123	0.	.0	5.9	1		1830	223	0.	.0	5.8
1		0155	24	1.	.0	6.0	1		1015	124	0.	.0	5.9	1		1835	224	0.	.0	5.8
1		0200	25	2.	.0	6.0	1		1020	125	0.	.0	5.9	1		1840	225	0.	.0	5.8
1		0205	26	2.	.0	6.0	1		1025	126	0.	.0	5.9	1		1845	226	0.	.0	5.8
1		0210	27	2.	.0	6.0	1		1030	127	0.	.0	5.9	1		1850	227	0.	.0	5.8
1		0215	28	2.	.0	6.0	1		1035	128	0.	.0	5.9	1		1855	228	0.	.0	5.8
1		0220	29	2.	.0	6.0	1		1040	129	0.	.0	5.9	1		1900	229	0.	.0	5.8
1		0225	30	2.	.0	6.0	1		1045	130	0.	.0	5.9	1		1905	230	0.	.0	5.8
1		0230	31	2.	.0	6.0	1		1050	131	0.	.0	5.9	1		1910	231	0.	.0	5.8
1		0235	32	2.	.0	6.0	1		1055	132	0.	.0	5.9	1		1915	232	0.	.0	5.8
1		0240	33	2.	.0	6.0	1		1100	133	0.	.0	5.9	1		1920	233	0.	.0	5.8
1		0245	34	2.	.0	6.0	1		1105	134	0.	.0	5.9	1		1925	234	0.	.0	5.8
1		0250	35	2.	.0	6.0	1		1110	135	0.	.0	5.9	1		1930	235	0.	.0	5.8
1		0255	36	2.	.0	6.0	1		1115	136	0.	.0	5.9	1		1935	236	0.	.0	5.8
1		0300	37	2.	.0	6.0	1		1120	137	0.	.0	5.9	1		1940	237	0.	.0	5.8
1		0305	38	2.	.0	6.0	1		1125	138	0.	.0	5.9	1		1945	238	0.	.0	5.8
1		0310	39	2.	.0	6.0	1		1130	139	0.	.0	5.9	1		1950	239	0.	.0	5.8
1		0315	40	2.	.0	6.0	1		1135	140	0.	.0	5.8	1		1955	240	0.	.0	5.8
1		0320	41	2.	.0	6.0	1		1140	141	0.	.0	5.8	1		2000	241	0.	.0	5.8
1		0325	42	2.	.0	6.0	1		1145	142	0.	.0	5.8	1		2005	242	0.	.0	5.8
1		0330	43	2.	.0	6.0	1		1150	143	0.	.0	5.8	1		2010	243	0.	.0	5.8
1		0335	44	3.	.0	6.0	1		1155	144	0.	.0	5.8	1		2015	244	0.	.0	5.8
1		0340	45	3.	.0	6.1	1		1200	145	0.	.0	5.8	1		2020	245	0.	.0	5.8
1		0345	46	3.	.0	6.1	1		1205	146	0.	.0	5.8	1		2025	246	0.	.0	5.8
1		0350	47	4.	.1	6.1	1		1210	147	0.	.0	5.8	1		2030	247	0.	.0	5.8
1		0355	48	5.	.1	6.3	1		1215	148	0.	.0	5.8	1		2035	248	0.	.0	5.8
1		0400	49	12.	.1	6.5	1		1220	149	0.	.0	5.8	1		2040	249	0.	.0	5.8
1		0405	50	28.	.2	6.9	1		1225	150	0.	.0	5.8	1		2045	250	0.	.0	5.8
1		0410	51	59.	.4	7.5	1		1230	151	0.	.0	5.8	1		2050	251	0.	.0	5.8
1		0415	52	92.	.5	7.9	1		1235	152	0.	.0	5.8	1		2055	252	0.	.0	5.8

1	0420	53	116.	.6	8.1	*	1	1240	153	0.	.0	5.8	*	1	2100	253	0.	.0	5.8
1	0425	54	130.	.7	8.3	*	1	1245	154	0.	.0	5.8	*	1	2105	254	0.	.0	5.8
1	0430	55	147.	.8	8.4	*	1	1250	155	0.	.0	5.8	*	1	2110	255	0.	.0	5.8
1	0435	56	170.	.9	8.6	*	1	1255	156	0.	.0	5.8	*	1	2115	256	0.	.0	5.8
1	0440	57	189.	.9	8.8	*	1	1300	157	0.	.0	5.8	*	1	2120	257	0.	.0	5.8
1	0445	58	192.	.9	8.8	*	1	1305	158	0.	.0	5.8	*	1	2125	258	0.	.0	5.8
1	0450	59	189.	.9	8.8	*	1	1310	159	0.	.0	5.8	*	1	2130	259	0.	.0	5.8
1	0455	60	188.	.9	8.8	*	1	1315	160	0.	.0	5.8	*	1	2135	260	0.	.0	5.8
1	0500	61	186.	.9	8.7	*	1	1320	161	0.	.0	5.8	*	1	2140	261	0.	.0	5.8
1	0505	62	184.	.9	8.7	*	1	1325	162	0.	.0	5.8	*	1	2145	262	0.	.0	5.8
1	0510	63	181.	.9	8.7	*	1	1330	163	0.	.0	5.8	*	1	2150	263	0.	.0	5.8
1	0515	64	179.	.9	8.7	*	1	1335	164	0.	.0	5.8	*	1	2155	264	0.	.0	5.8
1	0520	65	176.	.9	8.7	*	1	1340	165	0.	.0	5.8	*	1	2200	265	0.	.0	5.8
1	0525	66	173.	.9	8.6	*	1	1345	166	0.	.0	5.8	*	1	2205	266	0.	.0	5.8
1	0530	67	170.	.9	8.6	*	1	1350	167	0.	.0	5.8	*	1	2210	267	0.	.0	5.8
1	0535	68	166.	.8	8.6	*	1	1355	168	0.	.0	5.8	*	1	2215	268	0.	.0	5.8
1	0540	69	163.	.8	8.6	*	1	1400	169	0.	.0	5.8	*	1	2220	269	0.	.0	5.8
1	0545	70	158.	.8	8.5	*	1	1405	170	0.	.0	5.8	*	1	2225	270	0.	.0	5.8
1	0550	71	152.	.8	8.5	*	1	1410	171	0.	.0	5.8	*	1	2230	271	0.	.0	5.8
1	0555	72	144.	.8	8.4	*	1	1415	172	0.	.0	5.8	*	1	2235	272	0.	.0	5.8
1	0600	73	135.	.7	8.3	*	1	1420	173	0.	.0	5.8	*	1	2240	273	0.	.0	5.8
1	0605	74	123.	.7	8.2	*	1	1425	174	0.	.0	5.8	*	1	2245	274	0.	.0	5.8
1	0610	75	101.	.6	8.0	*	1	1430	175	0.	.0	5.8	*	1	2250	275	0.	.0	5.8
1	0615	76	69.	.4	7.6	*	1	1435	176	0.	.0	5.8	*	1	2255	276	0.	.0	5.8
1	0620	77	45.	.3	7.3	*	1	1440	177	0.	.0	5.8	*	1	2300	277	0.	.0	5.8
1	0625	78	33.	.3	7.0	*	1	1445	178	0.	.0	5.8	*	1	2305	278	0.	.0	5.8
1	0630	79	26.	.2	6.9	*	1	1450	179	0.	.0	5.8	*	1	2310	279	0.	.0	5.8
1	0635	80	22.	.2	6.8	*	1	1455	180	0.	.0	5.8	*	1	2315	280	0.	.0	5.8
1	0640	81	19.	.2	6.7	*	1	1500	181	0.	.0	5.8	*	1	2320	281	0.	.0	5.8
1	0645	82	17.	.2	6.7	*	1	1505	182	0.	.0	5.8	*	1	2325	282	0.	.0	5.8
1	0650	83	15.	.1	6.6	*	1	1510	183	0.	.0	5.8	*	1	2330	283	0.	.0	5.8
1	0655	84	13.	.1	6.5	*	1	1515	184	0.	.0	5.8	*	1	2335	284	0.	.0	5.8
1	0700	85	11.	.1	6.5	*	1	1520	185	0.	.0	5.8	*	1	2340	285	0.	.0	5.8
1	0705	86	10.	.1	6.4	*	1	1525	186	0.	.0	5.8	*	1	2345	286	0.	.0	5.8
1	0710	87	9.	.1	6.4	*	1	1530	187	0.	.0	5.8	*	1	2350	287	0.	.0	5.8
1	0715	88	7.	.1	6.4	*	1	1535	188	0.	.0	5.8	*	1	2355	288	0.	.0	5.8
1	0720	89	7.	.1	6.3	*	1	1540	189	0.	.0	5.8	*	2	0000	289	0.	.0	5.8
1	0725	90	6.	.1	6.3	*	1	1545	190	0.	.0	5.8	*	2	0005	290	0.	.0	5.8
1	0730	91	6.	.1	6.3	*	1	1550	191	0.	.0	5.8	*	2	0010	291	0.	.0	5.8
1	0735	92	5.	.1	6.3	*	1	1555	192	0.	.0	5.8	*	2	0015	292	0.	.0	5.8
1	0740	93	5.	.1	6.2	*	1	1600	193	0.	.0	5.8	*	2	0020	293	0.	.0	5.8
1	0745	94	4.	.1	6.2	*	1	1605	194	0.	.0	5.8	*	2	0025	294	0.	.0	5.8
1	0750	95	3.	.0	6.1	*	1	1610	195	0.	.0	5.8	*	2	0030	295	0.	.0	5.8
1	0755	96	3.	.0	6.1	*	1	1615	196	0.	.0	5.8	*	2	0035	296	0.	.0	5.8
1	0800	97	2.	.0	6.0	*	1	1620	197	0.	.0	5.8	*	2	0040	297	0.	.0	5.8
1	0805	98	2.	.0	6.0	*	1	1625	198	0.	.0	5.8	*	2	0045	298	0.	.0	5.8
1	0810	99	1.	.0	6.0	*	1	1630	199	0.	.0	5.8	*	2	0050	299	0.	.0	5.8
1	0815	100	1.	.0	5.9	*	1	1635	200	0.	.0	5.8	*	2	0055	300	0.	.0	5.8
						*							*						

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)					
		(CFS)				
192.	4.75		60.	15.	14.	14.
		(INCHES)	1.196	1.202	1.202	1.202
		(AC-FT)	30.	30.	30.	30.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
1.	4.75	0.	0.	0.	0.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
8.79	4.75	7.05	6.15	6.14	6.14

CUMULATIVE AREA = .46 SQ MI

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          *            *
 93 KK    *   DEVELO   *     P RAINFALL FOR SUBBASIN G4
          *            *
          **************
                        6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
                        THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
                       L =  .98  Kb = .064  Adj. Slope =   26.3

103 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          2  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL         0.  HYDROGRAPH PLOT SCALE

              SUBBASIN RUNOFF DATA

 97 BA          SUBBASIN CHARACTERISTICS
                     TAREA        .25  SUBBASIN AREA

                PRECIPITATION DATA

 98 PB               STORM       2.96  BASIN TOTAL PRECIPITATION

 11 PI            INCREMENTAL PRECIPITATION PATTERN
                     .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                     .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                     .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                     .00      .00      .00      .01      .01      .01      .01      .01      .01      .03
                     .03      .03      .05      .05      .05      .15      .15      .15      .03      .03
                     .03      .01      .01      .01      .01      .01      .01      .00      .00      .00
                     .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                     .00      .00

 99 LG          GREEN AND AMPT LOSS RATE
                     STRTL        .43  STARTING LOSS
                       DTH        .25  MOISTURE DEFICIT
                      PSIF       3.50  WETTING FRONT SUCTION
                     XKSAT        .51  HYDRAULIC CONDUCTIVITY
                     RTIMP      10.47  PERCENT IMPERVIOUS AREA
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100 UC          CLARK UNITGRAPH
                        TC          .74  TIME OF CONCENTRATION
                         R          .58  STORAGE COEFFICIENT

101 UA          ACCUMULATED-AREA VS. TIME,  11 ORDINATES
                      .0       5.0      16.0      30.0      65.0      77.0      84.0      90.0      94.0      97.0
                   100.0

                                                  ***

                                          UNIT HYDROGRAPH PARAMETERS
                                     CLARK   TC=   .74 HR,       R=   .58 HR
                                    SNYDER   TP=   .42 HR,      CP=   .43

                                            UNIT HYDROGRAPH
                                        41 END-OF-PERIOD ORDINATES
                 8.       33.       77.      134.      166.      167.      160.      150.      138.      124.
               107.       93.       80.       69.       60.       52.       45.       39.       34.       29.
                25.       22.       19.       16.       14.       12.       11.        9.        8.        7.
                 6.        5.        4.        4.        3.        3.        2.        2.        2.        2.
                 1.
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HYDROGRAPH AT STATION DEVELO

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
								*								
1		0000	1	.00	.00	.00	0.	*	1		1230	151	.00	.00	.00	0.
1		0005	2	.01	.01	.00	0.	*	1		1235	152	.00	.00	.00	0.
1		0010	3	.01	.01	.00	0.	*	1		1240	153	.00	.00	.00	0.
1		0015	4	.01	.01	.00	0.	*	1		1245	154	.00	.00	.00	0.
1		0020	5	.01	.01	.00	0.	*	1		1250	155	.00	.00	.00	0.
1		0025	6	.01	.01	.00	0.	*	1		1255	156	.00	.00	.00	0.
1		0030	7	.01	.01	.00	0.	*	1		1300	157	.00	.00	.00	0.
1		0035	8	.01	.01	.00	1.	*	1		1305	158	.00	.00	.00	0.
1		0040	9	.01	.01	.00	1.	*	1		1310	159	.00	.00	.00	0.
1		0045	10	.01	.01	.00	1.	*	1		1315	160	.00	.00	.00	0.
1		0050	11	.01	.01	.00	1.	*	1		1320	161	.00	.00	.00	0.
1		0055	12	.01	.01	.00	1.	*	1		1325	162	.00	.00	.00	0.
1		0100	13	.01	.01	.00	1.	*	1		1330	163	.00	.00	.00	0.
1		0105	14	.01	.01	.00	1.	*	1		1335	164	.00	.00	.00	0.
1		0110	15	.01	.01	.00	1.	*	1		1340	165	.00	.00	.00	0.
1		0115	16	.01	.01	.00	1.	*	1		1345	166	.00	.00	.00	0.
1		0120	17	.01	.01	.00	1.	*	1		1350	167	.00	.00	.00	0.
1		0125	18	.01	.01	.00	1.	*	1		1355	168	.00	.00	.00	0.
1		0130	19	.01	.01	.00	1.	*	1		1400	169	.00	.00	.00	0.
1		0135	20	.01	.01	.00	1.	*	1		1405	170	.00	.00	.00	0.
1		0140	21	.01	.01	.00	2.	*	1		1410	171	.00	.00	.00	0.
1		0145	22	.01	.01	.00	2.	*	1		1415	172	.00	.00	.00	0.
1		0150	23	.01	.01	.00	2.	*	1		1420	173	.00	.00	.00	0.
1		0155	24	.01	.01	.00	2.	*	1		1425	174	.00	.00	.00	0.
1		0200	25	.01	.01	.00	2.	*	1		1430	175	.00	.00	.00	0.
1		0205	26	.01	.01	.00	2.	*	1		1435	176	.00	.00	.00	0.
1		0210	27	.01	.01	.00	2.	*	1		1440	177	.00	.00	.00	0.

1	0215	28	.01	.01	.00	2.	*	1	1445	178	.00	.00	.00	0.
1	0220	29	.01	.01	.00	2.	*	1	1450	179	.00	.00	.00	0.
1	0225	30	.01	.01	.00	2.	*	1	1455	180	.00	.00	.00	0.
1	0230	31	.01	.01	.00	2.	*	1	1500	181	.00	.00	.00	0.
1	0235	32	.01	.01	.00	2.	*	1	1505	182	.00	.00	.00	0.
1	0240	33	.01	.01	.00	2.	*	1	1510	183	.00	.00	.00	0.
1	0245	34	.01	.01	.00	2.	*	1	1515	184	.00	.00	.00	0.
1	0250	35	.02	.02	.00	2.	*	1	1520	185	.00	.00	.00	0.
1	0255	36	.02	.02	.00	2.	*	1	1525	186	.00	.00	.00	0.
1	0300	37	.02	.02	.00	2.	*	1	1530	187	.00	.00	.00	0.
1	0305	38	.02	.02	.00	2.	*	1	1535	188	.00	.00	.00	0.
1	0310	39	.02	.02	.00	3.	*	1	1540	189	.00	.00	.00	0.
1	0315	40	.02	.02	.00	3.	*	1	1545	190	.00	.00	.00	0.
1	0320	41	.08	.07	.01	3.	*	1	1550	191	.00	.00	.00	0.
1	0325	42	.08	.07	.01	3.	*	1	1555	192	.00	.00	.00	0.
1	0330	43	.08	.07	.01	4.	*	1	1600	193	.00	.00	.00	0.
1	0335	44	.16	.14	.02	5.	*	1	1605	194	.00	.00	.00	0.
1	0340	45	.16	.12	.04	6.	*	1	1610	195	.00	.00	.00	0.
1	0345	46	.16	.10	.06	9.	*	1	1615	196	.00	.00	.00	0.
1	0350	47	.45	.09	.36	16.	*	1	1620	197	.00	.00	.00	0.
1	0355	48	.45	.08	.37	33.	*	1	1625	198	.00	.00	.00	0.
1	0400	49	.45	.08	.37	66.	*	1	1630	199	.00	.00	.00	0.
1	0405	50	.08	.07	.01	113.	*	1	1635	200	.00	.00	.00	0.
1	0410	51	.08	.07	.01	161.	*	1	1640	201	.00	.00	.00	0.
1	0415	52	.08	.07	.01	194.	*	1	1645	202	.00	.00	.00	0.
1	0420	53	.02	.02	.00	203.	*	1	1650	203	.00	.00	.00	0.
1	0425	54	.02	.02	.00	196.	*	1	1655	204	.00	.00	.00	0.
1	0430	55	.02	.02	.00	184.	*	1	1700	205	.00	.00	.00	0.
1	0435	56	.02	.02	.00	169.	*	1	1705	206	.00	.00	.00	0.
1	0440	57	.02	.02	.00	152.	*	1	1710	207	.00	.00	.00	0.
1	0445	58	.02	.02	.00	134.	*	1	1715	208	.00	.00	.00	0.
1	0450	59	.01	.01	.00	116.	*	1	1720	209	.00	.00	.00	0.
1	0455	60	.01	.01	.00	101.	*	1	1725	210	.00	.00	.00	0.
1	0500	61	.01	.01	.00	88.	*	1	1730	211	.00	.00	.00	0.
1	0505	62	.01	.01	.00	77.	*	1	1735	212	.00	.00	.00	0.
1	0510	63	.01	.01	.00	67.	*	1	1740	213	.00	.00	.00	0.
1	0515	64	.01	.01	.00	58.	*	1	1745	214	.00	.00	.00	0.
1	0520	65	.01	.01	.00	50.	*	1	1750	215	.00	.00	.00	0.
1	0525	66	.01	.01	.00	44.	*	1	1755	216	.00	.00	.00	0.
1	0530	67	.01	.01	.00	38.	*	1	1800	217	.00	.00	.00	0.
1	0535	68	.01	.01	.00	33.	*	1	1805	218	.00	.00	.00	0.
1	0540	69	.01	.01	.00	29.	*	1	1810	219	.00	.00	.00	0.
1	0545	70	.01	.01	.00	26.	*	1	1815	220	.00	.00	.00	0.
1	0550	71	.01	.01	.00	22.	*	1	1820	221	.00	.00	.00	0.
1	0555	72	.01	.01	.00	20.	*	1	1825	222	.00	.00	.00	0.
1	0600	73	.01	.01	.00	17.	*	1	1830	223	.00	.00	.00	0.
1	0605	74	.00	.00	.00	15.	*	1	1835	224	.00	.00	.00	0.
1	0610	75	.00	.00	.00	13.	*	1	1840	225	.00	.00	.00	0.
1	0615	76	.00	.00	.00	12.	*	1	1845	226	.00	.00	.00	0.
1	0620	77	.00	.00	.00	10.	*	1	1850	227	.00	.00	.00	0.
1	0625	78	.00	.00	.00	9.	*	1	1855	228	.00	.00	.00	0.
1	0630	79	.00	.00	.00	8.	*	1	1900	229	.00	.00	.00	0.
1	0635	80	.00	.00	.00	7.	*	1	1905	230	.00	.00	.00	0.
1	0640	81	.00	.00	.00	6.	*	1	1910	231	.00	.00	.00	0.
1	0645	82	.00	.00	.00	5.	*	1	1915	232	.00	.00	.00	0.
1	0650	83	.00	.00	.00	4.	*	1	1920	233	.00	.00	.00	0.
1	0655	84	.00	.00	.00	4.	*	1	1925	234	.00	.00	.00	0.
1	0700	85	.00	.00	.00	3.	*	1	1930	235	.00	.00	.00	0.

1	0705	86	.00	.00	.00	3.	*	1	1935	236	.00	.00	.00	0.
1	0710	87	.00	.00	.00	2.	*	1	1940	237	.00	.00	.00	0.
1	0715	88	.00	.00	.00	2.	*	1	1945	238	.00	.00	.00	0.
1	0720	89	.00	.00	.00	1.	*	1	1950	239	.00	.00	.00	0.
1	0725	90	.00	.00	.00	0.	*	1	1955	240	.00	.00	.00	0.
1	0730	91	.00	.00	.00	0.	*	1	2000	241	.00	.00	.00	0.
1	0735	92	.00	.00	.00	0.	*	1	2005	242	.00	.00	.00	0.
1	0740	93	.00	.00	.00	0.	*	1	2010	243	.00	.00	.00	0.
1	0745	94	.00	.00	.00	0.	*	1	2015	244	.00	.00	.00	0.
1	0750	95	.00	.00	.00	0.	*	1	2020	245	.00	.00	.00	0.
1	0755	96	.00	.00	.00	0.	*	1	2025	246	.00	.00	.00	0.
1	0800	97	.00	.00	.00	0.	*	1	2030	247	.00	.00	.00	0.
1	0805	98	.00	.00	.00	0.	*	1	2035	248	.00	.00	.00	0.
1	0810	99	.00	.00	.00	0.	*	1	2040	249	.00	.00	.00	0.
1	0815	100	.00	.00	.00	0.	*	1	2045	250	.00	.00	.00	0.
1	0820	101	.00	.00	.00	0.	*	1	2050	251	.00	.00	.00	0.
1	0825	102	.00	.00	.00	0.	*	1	2055	252	.00	.00	.00	0.
1	0830	103	.00	.00	.00	0.	*	1	2100	253	.00	.00	.00	0.
1	0835	104	.00	.00	.00	0.	*	1	2105	254	.00	.00	.00	0.
1	0840	105	.00	.00	.00	0.	*	1	2110	255	.00	.00	.00	0.
1	0845	106	.00	.00	.00	0.	*	1	2115	256	.00	.00	.00	0.
1	0850	107	.00	.00	.00	0.	*	1	2120	257	.00	.00	.00	0.
1	0855	108	.00	.00	.00	0.	*	1	2125	258	.00	.00	.00	0.
1	0900	109	.00	.00	.00	0.	*	1	2130	259	.00	.00	.00	0.
1	0905	110	.00	.00	.00	0.	*	1	2135	260	.00	.00	.00	0.
1	0910	111	.00	.00	.00	0.	*	1	2140	261	.00	.00	.00	0.
1	0915	112	.00	.00	.00	0.	*	1	2145	262	.00	.00	.00	0.
1	0920	113	.00	.00	.00	0.	*	1	2150	263	.00	.00	.00	0.
1	0925	114	.00	.00	.00	0.	*	1	2155	264	.00	.00	.00	0.
1	0930	115	.00	.00	.00	0.	*	1	2200	265	.00	.00	.00	0.
1	0935	116	.00	.00	.00	0.	*	1	2205	266	.00	.00	.00	0.
1	0940	117	.00	.00	.00	0.	*	1	2210	267	.00	.00	.00	0.
1	0945	118	.00	.00	.00	0.	*	1	2215	268	.00	.00	.00	0.
1	0950	119	.00	.00	.00	0.	*	1	2220	269	.00	.00	.00	0.
1	0955	120	.00	.00	.00	0.	*	1	2225	270	.00	.00	.00	0.
1	1000	121	.00	.00	.00	0.	*	1	2230	271	.00	.00	.00	0.
1	1005	122	.00	.00	.00	0.	*	1	2235	272	.00	.00	.00	0.
1	1010	123	.00	.00	.00	0.	*	1	2240	273	.00	.00	.00	0.
1	1015	124	.00	.00	.00	0.	*	1	2245	274	.00	.00	.00	0.
1	1020	125	.00	.00	.00	0.	*	1	2250	275	.00	.00	.00	0.
1	1025	126	.00	.00	.00	0.	*	1	2255	276	.00	.00	.00	0.
1	1030	127	.00	.00	.00	0.	*	1	2300	277	.00	.00	.00	0.
1	1035	128	.00	.00	.00	0.	*	1	2305	278	.00	.00	.00	0.
1	1040	129	.00	.00	.00	0.	*	1	2310	279	.00	.00	.00	0.
1	1045	130	.00	.00	.00	0.	*	1	2315	280	.00	.00	.00	0.
1	1050	131	.00	.00	.00	0.	*	1	2320	281	.00	.00	.00	0.
1	1055	132	.00	.00	.00	0.	*	1	2325	282	.00	.00	.00	0.
1	1100	133	.00	.00	.00	0.	*	1	2330	283	.00	.00	.00	0.
1	1105	134	.00	.00	.00	0.	*	1	2335	284	.00	.00	.00	0.
1	1110	135	.00	.00	.00	0.	*	1	2340	285	.00	.00	.00	0.
1	1115	136	.00	.00	.00	0.	*	1	2345	286	.00	.00	.00	0.
1	1120	137	.00	.00	.00	0.	*	1	2350	287	.00	.00	.00	0.
1	1125	138	.00	.00	.00	0.	*	1	2355	288	.00	.00	.00	0.
1	1130	139	.00	.00	.00	0.	*	2	0000	289	.00	.00	.00	0.
1	1135	140	.00	.00	.00	0.	*	2	0005	290	.00	.00	.00	0.
1	1140	141	.00	.00	.00	0.	*	2	0010	291	.00	.00	.00	0.
1	1145	142	.00	.00	.00	0.	*	2	0015	292	.00	.00	.00	0.
1	1150	143	.00	.00	.00	0.	*	2	0020	293	.00	.00	.00	0.

1	1155	144	.00	.00	.00	0.	*	2	0025	294	.00	.00	.00	0.
1	1200	145	.00	.00	.00	0.	*	2	0030	295	.00	.00	.00	0.
1	1205	146	.00	.00	.00	0.	*	2	0035	296	.00	.00	.00	0.
1	1210	147	.00	.00	.00	0.	*	2	0040	297	.00	.00	.00	0.
1	1215	148	.00	.00	.00	0.	*	2	0045	298	.00	.00	.00	0.
1	1220	149	.00	.00	.00	0.	*	2	0050	299	.00	.00	.00	0.
1	1225	150	.00	.00	.00	0.	*	2	0055	300	.00	.00	.00	0.
							*							

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TOTAL RAINFALL = 2.96, TOTAL LOSS = 1.62, TOTAL EXCESS = 1.34

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
203.	4.33		36.	9.	9.	9.
		(INCHES)	1.323	1.330	1.330	1.330
		(AC-FT)	18.	18.	18.	18.

CUMULATIVE AREA = .25 SQ MI

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              **************
              *            *
104 KK        *   Node9    *
              *            *
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Route water through detention basin to remove subdivision storage

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111 KO        OUTPUT CONTROL VARIABLES
                   IPRNT          2  PRINT CONTROL
                   IPLOT          0  PLOT CONTROL
                   QSCAL         0.  HYDROGRAPH PLOT SCALE

            HYDROGRAPH ROUTING DATA

106 RS        STORAGE ROUTING
                   NSTPS          1  NUMBER OF SUBREACHES
                    ITYP       STOR  TYPE OF INITIAL CONDITION
                  RSVRIC        .00  INITIAL CONDITION
                       X        .00 WORKING R AND D COEFFICIENT

107 SV          STORAGE         .0       7.6       8.0       9.0      10.0

108 SE        ELEVATION        .00     10.00     11.00     12.00     13.00

109 SL        LOW-LEVEL OUTLET
                   ELEVL        .00  ELEVATION AT CENTER OF OUTLET
                   CAREA       1.00  CROSS-SECTIONAL AREA
                    COQL        .60  COEFFICIENT
                    EXPL        .50  EXPONENT OF HEAD
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110 SS SPILLWAY

CREL	10.00	SPILLWAY CREST ELEVATION
SPWID	25.00	SPILLWAY WIDTH
COQW	2.70	WEIR COEFFICIENT
EXPW	1.50	EXPONENT OF HEAD

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COMPUTED OUTFLOW-ELEVATION DATA

OUTFLOW	.00	3.64	4.02	4.49	5.09	5.87	6.94	8.48	10.89	15.22
ELEVATION	.00	.57	.70	.87	1.12	1.49	2.08	3.10	5.12	10.00
OUTFLOW	15.63	18.27	25.19	38.47	60.20	92.44	137.28	196.78	273.03	368.09
ELEVATION	10.03	10.12	10.28	10.49	10.76	11.09	11.48	11.92	12.43	13.00

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	.43	.53	.66	.85	1.13	1.58	2.35	3.88	7.58
OUTFLOW	.00	3.64	4.02	4.49	5.09	5.87	6.94	8.48	10.89	15.22
ELEVATION	.00	.57	.70	.87	1.12	1.49	2.08	3.10	5.12	10.00
STORAGE	7.59	7.63	7.70	7.78	7.90	8.00	8.09	8.48	8.92	9.00
OUTFLOW	15.63	18.27	25.19	38.47	60.20	83.46	92.44	137.28	196.78	207.59
ELEVATION	10.03	10.12	10.28	10.49	10.76	11.00	11.09	11.48	11.92	12.00
STORAGE	9.43	10.00								
OUTFLOW	273.03	368.09								
ELEVATION	12.43	13.00								

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HYDROGRAPH AT STATION Node9

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DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	.0	*	1		0820	101	13.	5.6	7.4	*	1		1640	201	2.	.2	.3
1		0005	2	0.	.0	.0	*	1		0825	102	13.	5.5	7.3	*	1		1645	202	2.	.2	.3
1		0010	3	0.	.0	.0	*	1		0830	103	13.	5.4	7.2	*	1		1650	203	2.	.2	.3
1		0015	4	0.	.0	.0	*	1		0835	104	13.	5.4	7.1	*	1		1655	204	2.	.2	.3
1		0020	5	0.	.0	.0	*	1		0840	105	13.	5.3	7.0	*	1		1700	205	2.	.2	.3
1		0025	6	0.	.0	.0	*	1		0845	106	12.	5.2	6.8	*	1		1705	206	2.	.2	.2
1		0030	7	0.	.0	.0	*	1		0850	107	12.	5.1	6.7	*	1		1710	207	1.	.2	.2
1		0035	8	0.	.0	.0	*	1		0855	108	12.	5.0	6.6	*	1		1715	208	1.	.2	.2
1		0040	9	0.	.0	.0	*	1		0900	109	12.	4.9	6.5	*	1		1720	209	1.	.2	.2
1		0045	10	0.	.0	.0	*	1		0905	110	12.	4.8	6.4	*	1		1725	210	1.	.1	.2
1		0050	11	0.	.0	.0	*	1		0910	111	12.	4.8	6.3	*	1		1730	211	1.	.1	.2
1		0055	12	0.	.0	.0	*	1		0915	112	12.	4.7	6.2	*	1		1735	212	1.	.1	.2
1		0100	13	0.	.0	.0	*	1		0920	113	12.	4.6	6.1	*	1		1740	213	1.	.1	.2
1		0105	14	0.	.0	.1	*	1		0925	114	12.	4.5	6.0	*	1		1745	214	1.	.1	.2
1		0110	15	0.	.0	.1	*	1		0930	115	12.	4.4	5.9	*	1		1750	215	1.	.1	.1
1		0115	16	0.	.1	.1	*	1		0935	116	11.	4.4	5.8	*	1		1755	216	1.	.1	.1
1		0120	17	0.	.1	.1	*	1		0940	117	11.	4.3	5.7	*	1		1800	217	1.	.1	.1
1		0125	18	1.	.1	.1	*	1		0945	118	11.	4.2	5.6	*	1		1805	218	1.	.1	.1
1		0130	19	1.	.1	.1	*	1		0950	119	11.	4.1	5.4	*	1		1810	219	1.	.1	.1

1	0135	20	1.	.1	.1	*	1	0955	120	11.	4.1	5.3	*	1	1815	220	1.	.1	.1
1	0140	21	1.	.1	.1	*	1	1000	121	11.	4.0	5.2	*	1	1820	221	1.	.1	.1
1	0145	22	1.	.1	.1	*	1	1005	122	11.	3.9	5.1	*	1	1825	222	1.	.1	.1
1	0150	23	1.	.1	.1	*	1	1010	123	11.	3.8	5.0	*	1	1830	223	1.	.1	.1
1	0155	24	1.	.1	.1	*	1	1015	124	11.	3.8	5.0	*	1	1835	224	1.	.1	.1
1	0200	25	1.	.1	.1	*	1	1020	125	11.	3.7	4.9	*	1	1840	225	1.	.1	.1
1	0205	26	1.	.1	.1	*	1	1025	126	10.	3.6	4.8	*	1	1845	226	0.	.1	.1
1	0210	27	1.	.1	.1	*	1	1030	127	10.	3.5	4.7	*	1	1850	227	0.	.1	.1
1	0215	28	1.	.1	.2	*	1	1035	128	10.	3.5	4.6	*	1	1855	228	0.	.1	.1
1	0220	29	1.	.1	.2	*	1	1040	129	10.	3.4	4.5	*	1	1900	229	0.	.0	.1
1	0225	30	1.	.1	.2	*	1	1045	130	10.	3.3	4.4	*	1	1905	230	0.	.0	.1
1	0230	31	1.	.1	.2	*	1	1050	131	10.	3.3	4.3	*	1	1910	231	0.	.0	.1
1	0235	32	1.	.1	.2	*	1	1055	132	10.	3.2	4.2	*	1	1915	232	0.	.0	.1
1	0240	33	1.	.1	.2	*	1	1100	133	10.	3.1	4.1	*	1	1920	233	0.	.0	.1
1	0245	34	1.	.1	.2	*	1	1105	134	10.	3.1	4.0	*	1	1925	234	0.	.0	.0
1	0250	35	1.	.1	.2	*	1	1110	135	9.	3.0	3.9	*	1	1930	235	0.	.0	.0
1	0255	36	1.	.2	.2	*	1	1115	136	9.	2.9	3.9	*	1	1935	236	0.	.0	.0
1	0300	37	1.	.2	.2	*	1	1120	137	9.	2.9	3.8	*	1	1940	237	0.	.0	.0
1	0305	38	1.	.2	.2	*	1	1125	138	9.	2.8	3.7	*	1	1945	238	0.	.0	.0
1	0310	39	1.	.2	.2	*	1	1130	139	9.	2.7	3.6	*	1	1950	239	0.	.0	.0
1	0315	40	2.	.2	.2	*	1	1135	140	9.	2.7	3.5	*	1	1955	240	0.	.0	.0
1	0320	41	2.	.2	.2	*	1	1140	141	9.	2.6	3.4	*	1	2000	241	0.	.0	.0
1	0325	42	2.	.2	.3	*	1	1145	142	9.	2.6	3.4	*	1	2005	242	0.	.0	.0
1	0330	43	2.	.2	.3	*	1	1150	143	9.	2.5	3.3	*	1	2010	243	0.	.0	.0
1	0335	44	2.	.2	.3	*	1	1155	144	9.	2.4	3.2	*	1	2015	244	0.	.0	.0
1	0340	45	2.	.3	.3	*	1	1200	145	9.	2.4	3.1	*	1	2020	245	0.	.0	.0
1	0345	46	2.	.3	.4	*	1	1205	146	8.	2.3	3.1	*	1	2025	246	0.	.0	.0
1	0350	47	3.	.4	.5	*	1	1210	147	8.	2.3	3.0	*	1	2030	247	0.	.0	.0
1	0355	48	4.	.5	.7	*	1	1215	148	8.	2.2	2.9	*	1	2035	248	0.	.0	.0
1	0400	49	5.	.8	1.1	*	1	1220	149	8.	2.1	2.8	*	1	2040	249	0.	.0	.0
1	0405	50	6.	1.4	1.8	*	1	1225	150	8.	2.1	2.8	*	1	2045	250	0.	.0	.0
1	0410	51	8.	2.3	3.0	*	1	1230	151	8.	2.0	2.7	*	1	2050	251	0.	.0	.0
1	0415	52	10.	3.4	4.5	*	1	1235	152	8.	2.0	2.6	*	1	2055	252	0.	.0	.0
1	0420	53	12.	4.7	6.2	*	1	1240	153	8.	1.9	2.5	*	1	2100	253	0.	.0	.0
1	0425	54	13.	6.0	7.9	*	1	1245	154	8.	1.9	2.5	*	1	2105	254	0.	.0	.0
1	0430	55	15.	7.2	9.5	*	1	1250	155	7.	1.8	2.4	*	1	2110	255	0.	.0	.0
1	0435	56	92.	8.1	11.1	*	1	1255	156	7.	1.8	2.3	*	1	2115	256	0.	.0	.0
1	0440	57	131.	8.4	11.4	*	1	1300	157	7.	1.7	2.3	*	1	2120	257	0.	.0	.0
1	0445	58	138.	8.5	11.5	*	1	1305	158	7.	1.7	2.2	*	1	2125	258	0.	.0	.0
1	0450	59	130.	8.4	11.4	*	1	1310	159	7.	1.6	2.1	*	1	2130	259	0.	.0	.0
1	0455	60	118.	8.3	11.3	*	1	1315	160	7.	1.6	2.1	*	1	2135	260	0.	.0	.0
1	0500	61	105.	8.2	11.2	*	1	1320	161	7.	1.5	2.0	*	1	2140	261	0.	.0	.0
1	0505	62	92.	8.1	11.1	*	1	1325	162	7.	1.5	2.0	*	1	2145	262	0.	.0	.0
1	0510	63	80.	8.0	11.0	*	1	1330	163	7.	1.4	1.9	*	1	2150	263	0.	.0	.0
1	0515	64	64.	7.9	10.8	*	1	1335	164	6.	1.4	1.8	*	1	2155	264	0.	.0	.0
1	0520	65	56.	7.9	10.7	*	1	1340	165	6.	1.3	1.8	*	1	2200	265	0.	.0	.0
1	0525	66	49.	7.8	10.6	*	1	1345	166	6.	1.3	1.7	*	1	2205	266	0.	.0	.0
1	0530	67	43.	7.8	10.5	*	1	1350	167	6.	1.3	1.7	*	1	2210	267	0.	.0	.0
1	0535	68	37.	7.8	10.5	*	1	1355	168	6.	1.2	1.6	*	1	2215	268	0.	.0	.0
1	0540	69	33.	7.7	10.4	*	1	1400	169	6.	1.2	1.6	*	1	2220	269	0.	.0	.0
1	0545	70	29.	7.7	10.3	*	1	1405	170	6.	1.1	1.5	*	1	2225	270	0.	.0	.0
1	0550	71	26.	7.7	10.3	*	1	1410	171	6.	1.1	1.4	*	1	2230	271	0.	.0	.0
1	0555	72	23.	7.7	10.2	*	1	1415	172	6.	1.1	1.4	*	1	2235	272	0.	.0	.0
1	0600	73	20.	7.7	10.2	*	1	1420	173	6.	1.0	1.3	*	1	2240	273	0.	.0	.0
1	0605	74	18.	7.6	10.1	*	1	1425	174	5.	1.0	1.3	*	1	2245	274	0.	.0	.0
1	0610	75	17.	7.6	10.1	*	1	1430	175	5.	.9	1.2	*	1	2250	275	0.	.0	.0
1	0615	76	15.	7.6	10.0	*	1	1435	176	5.	.9	1.2	*	1	2255	276	0.	.0	.0
1	0620	77	15.	7.6	10.0	*	1	1440	177	5.	.9	1.1	*	1	2300	277	0.	.0	.0

1	0625	78	15.	7.5	9.9	*	1	1445	178	5.	.8	1.1	*	1	2305	278	0.	.0	.0
1	0630	79	15.	7.5	9.9	*	1	1450	179	5.	.8	1.1	*	1	2310	279	0.	.0	.0
1	0635	80	15.	7.4	9.8	*	1	1455	180	5.	.8	1.0	*	1	2315	280	0.	.0	.0
1	0640	81	15.	7.4	9.7	*	1	1500	181	5.	.7	1.0	*	1	2320	281	0.	.0	.0
1	0645	82	15.	7.3	9.6	*	1	1505	182	5.	.7	.9	*	1	2325	282	0.	.0	.0
1	0650	83	15.	7.2	9.5	*	1	1510	183	5.	.7	.9	*	1	2330	283	0.	.0	.0
1	0655	84	15.	7.1	9.4	*	1	1515	184	4.	.6	.8	*	1	2335	284	0.	.0	.0
1	0700	85	15.	7.1	9.3	*	1	1520	185	4.	.6	.8	*	1	2340	285	0.	.0	.0
1	0705	86	15.	7.0	9.2	*	1	1525	186	4.	.6	.8	*	1	2345	286	0.	.0	.0
1	0710	87	14.	6.9	9.1	*	1	1530	187	4.	.6	.7	*	1	2350	287	0.	.0	.0
1	0715	88	14.	6.8	9.0	*	1	1535	188	4.	.5	.7	*	1	2355	288	0.	.0	.0
1	0720	89	14.	6.7	8.9	*	1	1540	189	4.	.5	.7	*	2	0000	289	0.	.0	.0
1	0725	90	14.	6.6	8.8	*	1	1545	190	4.	.5	.6	*	2	0005	290	0.	.0	.0
1	0730	91	14.	6.5	8.6	*	1	1550	191	4.	.4	.6	*	2	0010	291	0.	.0	.0
1	0735	92	14.	6.4	8.5	*	1	1555	192	4.	.4	.6	*	2	0015	292	0.	.0	.0
1	0740	93	14.	6.4	8.4	*	1	1600	193	3.	.4	.5	*	2	0020	293	0.	.0	.0
1	0745	94	14.	6.3	8.3	*	1	1605	194	3.	.4	.5	*	2	0025	294	0.	.0	.0
1	0750	95	14.	6.2	8.1	*	1	1610	195	3.	.4	.5	*	2	0030	295	0.	.0	.0
1	0755	96	13.	6.1	8.0	*	1	1615	196	3.	.3	.4	*	2	0035	296	0.	.0	.0
1	0800	97	13.	6.0	7.9	*	1	1620	197	3.	.3	.4	*	2	0040	297	0.	.0	.0
1	0805	98	13.	5.9	7.8	*	1	1625	198	2.	.3	.4	*	2	0045	298	0.	.0	.0
1	0810	99	13.	5.8	7.7	*	1	1630	199	2.	.3	.4	*	2	0050	299	0.	.0	.0
1	0815	100	13.	5.7	7.5	*	1	1635	200	2.	.3	.3	*	2	0055	300	0.	.0	.0
						*							*						

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
138.	4.75		28.	9.	9.	9.
		(INCHES)	1.015	1.330	1.330	1.330
		(AC-FT)	14.	18.	18.	18.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
8.	4.75	6.	2.	2.	2.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
11.48	4.75	8.45	2.76	2.66	2.66

CUMULATIVE AREA = .25 SQ MI

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          *            *
112 KK    *   Node15   *
          *            *
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confluence g1-g2-g3 with g4

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115 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

114 HC          HYDROGRAPH COMBINATION
                      ICOMP          2  NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION Node15
SUM OF 2 HYDROGRAPHS

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	84.	1		1230	151	8.	1		1845	226	0.
1		0005	2	0.	1		0620	77	60.	1		1235	152	8.	1		1850	227	0.
1		0010	3	0.	1		0625	78	48.	1		1240	153	8.	1		1855	228	0.
1		0015	4	0.	1		0630	79	41.	1		1245	154	8.	1		1900	229	0.
1		0020	5	0.	1		0635	80	37.	1		1250	155	7.	1		1905	230	0.
1		0025	6	0.	1		0640	81	34.	1		1255	156	7.	1		1910	231	0.
1		0030	7	0.	1		0645	82	32.	1		1300	157	7.	1		1915	232	0.
1		0035	8	0.	1		0650	83	30.	1		1305	158	7.	1		1920	233	0.
1		0040	9	0.	1		0655	84	28.	1		1310	159	7.	1		1925	234	0.
1		0045	10	0.	1		0700	85	26.	1		1315	160	7.	1		1930	235	0.
1		0050	11	0.	1		0705	86	24.	1		1320	161	7.	1		1935	236	0.
1		0055	12	1.	1		0710	87	23.	1		1325	162	7.	1		1940	237	0.
1		0100	13	1.	1		0715	88	22.	1		1330	163	7.	1		1945	238	0.
1		0105	14	1.	1		0720	89	21.	1		1335	164	6.	1		1950	239	0.
1		0110	15	1.	1		0725	90	20.	1		1340	165	6.	1		1955	240	0.
1		0115	16	1.	1		0730	91	20.	1		1345	166	6.	1		2000	241	0.
1		0120	17	1.	1		0735	92	19.	1		1350	167	6.	1		2005	242	0.
1		0125	18	2.	1		0740	93	19.	1		1355	168	6.	1		2010	243	0.
1		0130	19	2.	1		0745	94	18.	1		1400	169	6.	1		2015	244	0.
1		0135	20	2.	1		0750	95	17.	1		1405	170	6.	1		2020	245	0.
1		0140	21	2.	1		0755	96	16.	1		1410	171	6.	1		2025	246	0.
1		0145	22	2.	1		0800	97	16.	1		1415	172	6.	1		2030	247	0.
1		0150	23	2.	1		0805	98	15.	1		1420	173	6.	1		2035	248	0.
1		0155	24	2.	1		0810	99	14.	1		1425	174	5.	1		2040	249	0.
1		0200	25	2.	1		0815	100	14.	1		1430	175	5.	1		2045	250	0.
1		0205	26	2.	1		0820	101	14.	1		1435	176	5.	1		2050	251	0.
1		0210	27	3.	1		0825	102	13.	1		1440	177	5.	1		2055	252	0.
1		0215	28	3.	1		0830	103	13.	1		1445	178	5.	1		2100	253	0.
1		0220	29	3.	1		0835	104	13.	1		1450	179	5.	1		2105	254	0.
1		0225	30	3.	1		0840	105	13.	1		1455	180	5.	1		2110	255	0.
1		0230	31	3.	1		0845	106	13.	1		1500	181	5.	1		2115	256	0.
1		0235	32	3.	1		0850	107	12.	1		1505	182	5.	1		2120	257	0.
1		0240	33	3.	1		0855	108	12.	1		1510	183	5.	1		2125	258	0.
1		0245	34	3.	1		0900	109	12.	1		1515	184	4.	1		2130	259	0.
1		0250	35	3.	1		0905	110	12.	1		1520	185	4.	1		2135	260	0.
1		0255	36	3.	1		0910	111	12.	1		1525	186	4.	1		2140	261	0.
1		0300	37	3.	1		0915	112	12.	1		1530	187	4.	1		2145	262	0.
1		0305	38	3.	1		0920	113	12.	1		1535	188	4.	1		2150	263	0.

1	0310	39	3.	*	1	0925	114	12.	*	1	1540	189	4.	*	1	2155	264	0.
1	0315	40	4.	*	1	0930	115	12.	*	1	1545	190	4.	*	1	2200	265	0.
1	0320	41	4.	*	1	0935	116	11.	*	1	1550	191	4.	*	1	2205	266	0.
1	0325	42	4.	*	1	0940	117	11.	*	1	1555	192	4.	*	1	2210	267	0.
1	0330	43	4.	*	1	0945	118	11.	*	1	1600	193	3.	*	1	2215	268	0.
1	0335	44	4.	*	1	0950	119	11.	*	1	1605	194	3.	*	1	2220	269	0.
1	0340	45	5.	*	1	0955	120	11.	*	1	1610	195	3.	*	1	2225	270	0.
1	0345	46	6.	*	1	1000	121	11.	*	1	1615	196	3.	*	1	2230	271	0.
1	0350	47	7.	*	1	1005	122	11.	*	1	1620	197	3.	*	1	2235	272	0.
1	0355	48	9.	*	1	1010	123	11.	*	1	1625	198	2.	*	1	2240	273	0.
1	0400	49	17.	*	1	1015	124	11.	*	1	1630	199	2.	*	1	2245	274	0.
1	0405	50	35.	*	1	1020	125	11.	*	1	1635	200	2.	*	1	2250	275	0.
1	0410	51	67.	*	1	1025	126	10.	*	1	1640	201	2.	*	1	2255	276	0.
1	0415	52	102.	*	1	1030	127	10.	*	1	1645	202	2.	*	1	2300	277	0.
1	0420	53	127.	*	1	1035	128	10.	*	1	1650	203	2.	*	1	2305	278	0.
1	0425	54	144.	*	1	1040	129	10.	*	1	1655	204	2.	*	1	2310	279	0.
1	0430	55	161.	*	1	1045	130	10.	*	1	1700	205	2.	*	1	2315	280	0.
1	0435	56	262.	*	1	1050	131	10.	*	1	1705	206	2.	*	1	2320	281	0.
1	0440	57	320.	*	1	1055	132	10.	*	1	1710	207	1.	*	1	2325	282	0.
1	0445	58	329.	*	1	1100	133	10.	*	1	1715	208	1.	*	1	2330	283	0.
1	0450	59	320.	*	1	1105	134	10.	*	1	1720	209	1.	*	1	2335	284	0.
1	0455	60	306.	*	1	1110	135	9.	*	1	1725	210	1.	*	1	2340	285	0.
1	0500	61	290.	*	1	1115	136	9.	*	1	1730	211	1.	*	1	2345	286	0.
1	0505	62	276.	*	1	1120	137	9.	*	1	1735	212	1.	*	1	2350	287	0.
1	0510	63	261.	*	1	1125	138	9.	*	1	1740	213	1.	*	1	2355	288	0.
1	0515	64	243.	*	1	1130	139	9.	*	1	1745	214	1.	*	2	0000	289	0.
1	0520	65	232.	*	1	1135	140	9.	*	1	1750	215	1.	*	2	0005	290	0.
1	0525	66	222.	*	1	1140	141	9.	*	1	1755	216	1.	*	2	0010	291	0.
1	0530	67	212.	*	1	1145	142	9.	*	1	1800	217	1.	*	2	0015	292	0.
1	0535	68	204.	*	1	1150	143	9.	*	1	1805	218	1.	*	2	0020	293	0.
1	0540	69	196.	*	1	1155	144	9.	*	1	1810	219	1.	*	2	0025	294	0.
1	0545	70	187.	*	1	1200	145	9.	*	1	1815	220	1.	*	2	0030	295	0.
1	0550	71	177.	*	1	1205	146	8.	*	1	1820	221	1.	*	2	0035	296	0.
1	0555	72	167.	*	1	1210	147	8.	*	1	1825	222	1.	*	2	0040	297	0.
1	0600	73	155.	*	1	1215	148	8.	*	1	1830	223	1.	*	2	0045	298	0.
1	0605	74	142.	*	1	1220	149	8.	*	1	1835	224	1.	*	2	0050	299	0.
1	0610	75	118.	*	1	1225	150	8.	*	1	1840	225	1.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
329.	4.75		86.	24.	23.	23.
		(INCHES)	1.122	1.247	1.247	1.247
		(AC-FT)	43.	48.	48.	48.

CUMULATIVE AREA = .71 SQ MI

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116 KK     *    Develo  *     pe rainfall for phase 2 area
           *            *
           **************
                        6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
                        THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
                       L =  .072  Kb = .064  Adj. Slope =   9.9

126 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

              SUBBASIN RUNOFF DATA

120 BA          SUBBASIN CHARACTERISTICS
                      TAREA        .04  SUBBASIN AREA

                PRECIPITATION DATA

121 PB                STORM       2.96  BASIN TOTAL PRECIPITATION

 11 PI            INCREMENTAL PRECIPITATION PATTERN
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00       .00       .01       .01       .01       .01       .01       .01       .03
                      .03       .03       .05       .05       .05       .15       .15       .15       .03       .03
                      .03       .01       .01       .01       .01       .01       .01       .00       .00       .00
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00

122 LG          GREEN AND AMPT LOSS RATE
                      STRTL        .43  STARTING LOSS
                        DTH        .25  MOISTURE DEFICIT
                       PSIF       3.50  WETTING FRONT SUCTION
                      XKSAT        .51  HYDRAULIC CONDUCTIVITY
                      RTIMP        .00  PERCENT IMPERVIOUS AREA

123 UC          CLARK UNITGRAPH
                         TC        .60  TIME OF CONCENTRATION
                          R        .49  STORAGE COEFFICIENT

124 UA          ACCUMULATED-AREA VS. TIME,  11 ORDINATES
                        .0       5.0      16.0      30.0      65.0      77.0      84.0      90.0      94.0      97.0
                     100.0

                                                  ***

                                          UNIT HYDROGRAPH PARAMETERS
                                     CLARK   TC=   .60 HR,       R=   .49 HR
                                    SNYDER   TP=   .35 HR,      CP=   .43

                                          UNIT HYDROGRAPH
                                     34 END-OF-PERIOD ORDINATES
                2.        9.       23.       33.       34.       32.       30.       26.       23.       19.
               16.       13.       11.       10.        8.        7.        6.        5.        4.        3.
                3.        2.        2.        2.        1.        1.        1.        1.        1.        1.
                1.        0.        0.        0.
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HYDROGRAPH AT STATION Develo

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1		0000	1	.00	.00	.00	0.	*	1		1230	151	.00	.00	.00	0.
1		0005	2	.01	.01	.00	0.	*	1		1235	152	.00	.00	.00	0.
1		0010	3	.01	.01	.00	0.	*	1		1240	153	.00	.00	.00	0.
1		0015	4	.01	.01	.00	0.	*	1		1245	154	.00	.00	.00	0.
1		0020	5	.01	.01	.00	0.	*	1		1250	155	.00	.00	.00	0.
1		0025	6	.01	.01	.00	0.	*	1		1255	156	.00	.00	.00	0.
1		0030	7	.01	.01	.00	0.	*	1		1300	157	.00	.00	.00	0.
1		0035	8	.01	.01	.00	0.	*	1		1305	158	.00	.00	.00	0.
1		0040	9	.01	.01	.00	0.	*	1		1310	159	.00	.00	.00	0.
1		0045	10	.01	.01	.00	0.	*	1		1315	160	.00	.00	.00	0.
1		0050	11	.01	.01	.00	0.	*	1		1320	161	.00	.00	.00	0.
1		0055	12	.01	.01	.00	0.	*	1		1325	162	.00	.00	.00	0.
1		0100	13	.01	.01	.00	0.	*	1		1330	163	.00	.00	.00	0.
1		0105	14	.01	.01	.00	0.	*	1		1335	164	.00	.00	.00	0.
1		0110	15	.01	.01	.00	0.	*	1		1340	165	.00	.00	.00	0.
1		0115	16	.01	.01	.00	0.	*	1		1345	166	.00	.00	.00	0.
1		0120	17	.01	.01	.00	0.	*	1		1350	167	.00	.00	.00	0.
1		0125	18	.01	.01	.00	0.	*	1		1355	168	.00	.00	.00	0.
1		0130	19	.01	.01	.00	0.	*	1		1400	169	.00	.00	.00	0.
1		0135	20	.01	.01	.00	0.	*	1		1405	170	.00	.00	.00	0.
1		0140	21	.01	.01	.00	0.	*	1		1410	171	.00	.00	.00	0.
1		0145	22	.01	.01	.00	0.	*	1		1415	172	.00	.00	.00	0.
1		0150	23	.01	.01	.00	0.	*	1		1420	173	.00	.00	.00	0.
1		0155	24	.01	.01	.00	0.	*	1		1425	174	.00	.00	.00	0.
1		0200	25	.01	.01	.00	0.	*	1		1430	175	.00	.00	.00	0.
1		0205	26	.01	.01	.00	0.	*	1		1435	176	.00	.00	.00	0.
1		0210	27	.01	.01	.00	0.	*	1		1440	177	.00	.00	.00	0.
1		0215	28	.01	.01	.00	0.	*	1		1445	178	.00	.00	.00	0.
1		0220	29	.01	.01	.00	0.	*	1		1450	179	.00	.00	.00	0.
1		0225	30	.01	.01	.00	0.	*	1		1455	180	.00	.00	.00	0.
1		0230	31	.01	.01	.00	0.	*	1		1500	181	.00	.00	.00	0.
1		0235	32	.01	.01	.00	0.	*	1		1505	182	.00	.00	.00	0.
1		0240	33	.01	.01	.00	0.	*	1		1510	183	.00	.00	.00	0.
1		0245	34	.01	.01	.00	0.	*	1		1515	184	.00	.00	.00	0.
1		0250	35	.02	.02	.00	0.	*	1		1520	185	.00	.00	.00	0.
1		0255	36	.02	.02	.00	0.	*	1		1525	186	.00	.00	.00	0.
1		0300	37	.02	.02	.00	0.	*	1		1530	187	.00	.00	.00	0.
1		0305	38	.02	.02	.00	0.	*	1		1535	188	.00	.00	.00	0.
1		0310	39	.02	.02	.00	0.	*	1		1540	189	.00	.00	.00	0.
1		0315	40	.02	.02	.00	0.	*	1		1545	190	.00	.00	.00	0.
1		0320	41	.08	.08	.00	0.	*	1		1550	191	.00	.00	.00	0.
1		0325	42	.08	.08	.00	0.	*	1		1555	192	.00	.00	.00	0.
1		0330	43	.08	.08	.00	0.	*	1		1600	193	.00	.00	.00	0.
1		0335	44	.16	.16	.00	0.	*	1		1605	194	.00	.00	.00	0.
1		0340	45	.16	.13	.03	0.	*	1		1610	195	.00	.00	.00	0.
1		0345	46	.16	.11	.05	0.	*	1		1615	196	.00	.00	.00	0.
1		0350	47	.45	.10	.35	2.	*	1		1620	197	.00	.00	.00	0.
1		0355	48	.45	.09	.36	6.	*	1		1625	198	.00	.00	.00	0.
1		0400	49	.45	.09	.36	15.	*	1		1630	199	.00	.00	.00	0.

1	0405	50	.08	.08	.00	26.	*	1	1635	200	.00	.00	.00	0.
1	0410	51	.08	.08	.00	35.	*	1	1640	201	.00	.00	.00	0.
1	0415	52	.08	.08	.00	38.	*	1	1645	202	.00	.00	.00	0.
1	0420	53	.02	.02	.00	36.	*	1	1650	203	.00	.00	.00	0.
1	0425	54	.02	.02	.00	33.	*	1	1655	204	.00	.00	.00	0.
1	0430	55	.02	.02	.00	30.	*	1	1700	205	.00	.00	.00	0.
1	0435	56	.02	.02	.00	25.	*	1	1705	206	.00	.00	.00	0.
1	0440	57	.02	.02	.00	22.	*	1	1710	207	.00	.00	.00	0.
1	0445	58	.02	.02	.00	18.	*	1	1715	208	.00	.00	.00	0.
1	0450	59	.01	.01	.00	15.	*	1	1720	209	.00	.00	.00	0.
1	0455	60	.01	.01	.00	13.	*	1	1725	210	.00	.00	.00	0.
1	0500	61	.01	.01	.00	11.	*	1	1730	211	.00	.00	.00	0.
1	0505	62	.01	.01	.00	9.	*	1	1735	212	.00	.00	.00	0.
1	0510	63	.01	.01	.00	8.	*	1	1740	213	.00	.00	.00	0.
1	0515	64	.01	.01	.00	6.	*	1	1745	214	.00	.00	.00	0.
1	0520	65	.01	.01	.00	5.	*	1	1750	215	.00	.00	.00	0.
1	0525	66	.01	.01	.00	5.	*	1	1755	216	.00	.00	.00	0.
1	0530	67	.01	.01	.00	4.	*	1	1800	217	.00	.00	.00	0.
1	0535	68	.01	.01	.00	3.	*	1	1805	218	.00	.00	.00	0.
1	0540	69	.01	.01	.00	3.	*	1	1810	219	.00	.00	.00	0.
1	0545	70	.01	.01	.00	2.	*	1	1815	220	.00	.00	.00	0.
1	0550	71	.01	.01	.00	2.	*	1	1820	221	.00	.00	.00	0.
1	0555	72	.01	.01	.00	2.	*	1	1825	222	.00	.00	.00	0.
1	0600	73	.01	.01	.00	1.	*	1	1830	223	.00	.00	.00	0.
1	0605	74	.00	.00	.00	1.	*	1	1835	224	.00	.00	.00	0.
1	0610	75	.00	.00	.00	1.	*	1	1840	225	.00	.00	.00	0.
1	0615	76	.00	.00	.00	1.	*	1	1845	226	.00	.00	.00	0.
1	0620	77	.00	.00	.00	1.	*	1	1850	227	.00	.00	.00	0.
1	0625	78	.00	.00	.00	1.	*	1	1855	228	.00	.00	.00	0.
1	0630	79	.00	.00	.00	0.	*	1	1900	229	.00	.00	.00	0.
1	0635	80	.00	.00	.00	0.	*	1	1905	230	.00	.00	.00	0.
1	0640	81	.00	.00	.00	0.	*	1	1910	231	.00	.00	.00	0.
1	0645	82	.00	.00	.00	0.	*	1	1915	232	.00	.00	.00	0.
1	0650	83	.00	.00	.00	0.	*	1	1920	233	.00	.00	.00	0.
1	0655	84	.00	.00	.00	0.	*	1	1925	234	.00	.00	.00	0.
1	0700	85	.00	.00	.00	0.	*	1	1930	235	.00	.00	.00	0.
1	0705	86	.00	.00	.00	0.	*	1	1935	236	.00	.00	.00	0.
1	0710	87	.00	.00	.00	0.	*	1	1940	237	.00	.00	.00	0.
1	0715	88	.00	.00	.00	0.	*	1	1945	238	.00	.00	.00	0.
1	0720	89	.00	.00	.00	0.	*	1	1950	239	.00	.00	.00	0.
1	0725	90	.00	.00	.00	0.	*	1	1955	240	.00	.00	.00	0.
1	0730	91	.00	.00	.00	0.	*	1	2000	241	.00	.00	.00	0.
1	0735	92	.00	.00	.00	0.	*	1	2005	242	.00	.00	.00	0.
1	0740	93	.00	.00	.00	0.	*	1	2010	243	.00	.00	.00	0.
1	0745	94	.00	.00	.00	0.	*	1	2015	244	.00	.00	.00	0.
1	0750	95	.00	.00	.00	0.	*	1	2020	245	.00	.00	.00	0.
1	0755	96	.00	.00	.00	0.	*	1	2025	246	.00	.00	.00	0.
1	0800	97	.00	.00	.00	0.	*	1	2030	247	.00	.00	.00	0.
1	0805	98	.00	.00	.00	0.	*	1	2035	248	.00	.00	.00	0.
1	0810	99	.00	.00	.00	0.	*	1	2040	249	.00	.00	.00	0.
1	0815	100	.00	.00	.00	0.	*	1	2045	250	.00	.00	.00	0.
1	0820	101	.00	.00	.00	0.	*	1	2050	251	.00	.00	.00	0.
1	0825	102	.00	.00	.00	0.	*	1	2055	252	.00	.00	.00	0.
1	0830	103	.00	.00	.00	0.	*	1	2100	253	.00	.00	.00	0.
1	0835	104	.00	.00	.00	0.	*	1	2105	254	.00	.00	.00	0.
1	0840	105	.00	.00	.00	0.	*	1	2110	255	.00	.00	.00	0.
1	0845	106	.00	.00	.00	0.	*	1	2115	256	.00	.00	.00	0.
1	0850	107	.00	.00	.00	0.	*	1	2120	257	.00	.00	.00	0.

1	0855	108	.00	.00	.00	0.	*	1	2125	258	.00	.00	.00	0.
1	0900	109	.00	.00	.00	0.	*	1	2130	259	.00	.00	.00	0.
1	0905	110	.00	.00	.00	0.	*	1	2135	260	.00	.00	.00	0.
1	0910	111	.00	.00	.00	0.	*	1	2140	261	.00	.00	.00	0.
1	0915	112	.00	.00	.00	0.	*	1	2145	262	.00	.00	.00	0.
1	0920	113	.00	.00	.00	0.	*	1	2150	263	.00	.00	.00	0.
1	0925	114	.00	.00	.00	0.	*	1	2155	264	.00	.00	.00	0.
1	0930	115	.00	.00	.00	0.	*	1	2200	265	.00	.00	.00	0.
1	0935	116	.00	.00	.00	0.	*	1	2205	266	.00	.00	.00	0.
1	0940	117	.00	.00	.00	0.	*	1	2210	267	.00	.00	.00	0.
1	0945	118	.00	.00	.00	0.	*	1	2215	268	.00	.00	.00	0.
1	0950	119	.00	.00	.00	0.	*	1	2220	269	.00	.00	.00	0.
1	0955	120	.00	.00	.00	0.	*	1	2225	270	.00	.00	.00	0.
1	1000	121	.00	.00	.00	0.	*	1	2230	271	.00	.00	.00	0.
1	1005	122	.00	.00	.00	0.	*	1	2235	272	.00	.00	.00	0.
1	1010	123	.00	.00	.00	0.	*	1	2240	273	.00	.00	.00	0.
1	1015	124	.00	.00	.00	0.	*	1	2245	274	.00	.00	.00	0.
1	1020	125	.00	.00	.00	0.	*	1	2250	275	.00	.00	.00	0.
1	1025	126	.00	.00	.00	0.	*	1	2255	276	.00	.00	.00	0.
1	1030	127	.00	.00	.00	0.	*	1	2300	277	.00	.00	.00	0.
1	1035	128	.00	.00	.00	0.	*	1	2305	278	.00	.00	.00	0.
1	1040	129	.00	.00	.00	0.	*	1	2310	279	.00	.00	.00	0.
1	1045	130	.00	.00	.00	0.	*	1	2315	280	.00	.00	.00	0.
1	1050	131	.00	.00	.00	0.	*	1	2320	281	.00	.00	.00	0.
1	1055	132	.00	.00	.00	0.	*	1	2325	282	.00	.00	.00	0.
1	1100	133	.00	.00	.00	0.	*	1	2330	283	.00	.00	.00	0.
1	1105	134	.00	.00	.00	0.	*	1	2335	284	.00	.00	.00	0.
1	1110	135	.00	.00	.00	0.	*	1	2340	285	.00	.00	.00	0.
1	1115	136	.00	.00	.00	0.	*	1	2345	286	.00	.00	.00	0.
1	1120	137	.00	.00	.00	0.	*	1	2350	287	.00	.00	.00	0.
1	1125	138	.00	.00	.00	0.	*	1	2355	288	.00	.00	.00	0.
1	1130	139	.00	.00	.00	0.	*	2	0000	289	.00	.00	.00	0.
1	1135	140	.00	.00	.00	0.	*	2	0005	290	.00	.00	.00	0.
1	1140	141	.00	.00	.00	0.	*	2	0010	291	.00	.00	.00	0.
1	1145	142	.00	.00	.00	0.	*	2	0015	292	.00	.00	.00	0.
1	1150	143	.00	.00	.00	0.	*	2	0020	293	.00	.00	.00	0.
1	1155	144	.00	.00	.00	0.	*	2	0025	294	.00	.00	.00	0.
1	1200	145	.00	.00	.00	0.	*	2	0030	295	.00	.00	.00	0.
1	1205	146	.00	.00	.00	0.	*	2	0035	296	.00	.00	.00	0.
1	1210	147	.00	.00	.00	0.	*	2	0040	297	.00	.00	.00	0.
1	1215	148	.00	.00	.00	0.	*	2	0045	298	.00	.00	.00	0.
1	1220	149	.00	.00	.00	0.	*	2	0050	299	.00	.00	.00	0.
1	1225	150	.00	.00	.00	0.	*	2	0055	300	.00	.00	.00	0.
							*							

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TOTAL RAINFALL = 2.96, TOTAL LOSS = 1.81, TOTAL EXCESS = 1.15

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
38.	4.25		5.	1.	1.	1.
		(INCHES)	1.141	1.141	1.141	1.141
		(AC-FT)	3.	3.	3.	3.

CUMULATIVE AREA = .04 SQ MI

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          *            *
127 KK    *   Node16   *
          *            *
          **************
                    confluence g1-g2-g3-g4 and phase 2

130 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          2  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL         0.  HYDROGRAPH PLOT SCALE

129 HC          HYDROGRAPH COMBINATION
                     ICOMP          2  NUMBER OF HYDROGRAPHS TO COMBINE
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HYDROGRAPH AT STATION Node16
SUM OF 2 HYDROGRAPHS

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	85.	1		1230	151	8.	1		1845	226	0.
1		0005	2	0.	1		0620	77	61.	1		1235	152	8.	1		1850	227	0.
1		0010	3	0.	1		0625	78	49.	1		1240	153	8.	1		1855	228	0.
1		0015	4	0.	1		0630	79	42.	1		1245	154	8.	1		1900	229	0.
1		0020	5	0.	1		0635	80	37.	1		1250	155	7.	1		1905	230	0.
1		0025	6	0.	1		0640	81	34.	1		1255	156	7.	1		1910	231	0.
1		0030	7	0.	1		0645	82	32.	1		1300	157	7.	1		1915	232	0.
1		0035	8	0.	1		0650	83	30.	1		1305	158	7.	1		1920	233	0.
1		0040	9	0.	1		0655	84	28.	1		1310	159	7.	1		1925	234	0.
1		0045	10	0.	1		0700	85	26.	1		1315	160	7.	1		1930	235	0.
1		0050	11	0.	1		0705	86	24.	1		1320	161	7.	1		1935	236	0.
1		0055	12	1.	1		0710	87	23.	1		1325	162	7.	1		1940	237	0.
1		0100	13	1.	1		0715	88	22.	1		1330	163	7.	1		1945	238	0.
1		0105	14	1.	1		0720	89	21.	1		1335	164	6.	1		1950	239	0.
1		0110	15	1.	1		0725	90	20.	1		1340	165	6.	1		1955	240	0.
1		0115	16	1.	1		0730	91	20.	1		1345	166	6.	1		2000	241	0.
1		0120	17	1.	1		0735	92	19.	1		1350	167	6.	1		2005	242	0.
1		0125	18	2.	1		0740	93	19.	1		1355	168	6.	1		2010	243	0.
1		0130	19	2.	1		0745	94	18.	1		1400	169	6.	1		2015	244	0.
1		0135	20	2.	1		0750	95	17.	1		1405	170	6.	1		2020	245	0.
1		0140	21	2.	1		0755	96	16.	1		1410	171	6.	1		2025	246	0.
1		0145	22	2.	1		0800	97	16.	1		1415	172	6.	1		2030	247	0.
1		0150	23	2.	1		0805	98	15.	1		1420	173	6.	1		2035	248	0.
1		0155	24	2.	1		0810	99	14.	1		1425	174	5.	1		2040	249	0.
1		0200	25	2.	1		0815	100	14.	1		1430	175	5.	1		2045	250	0.
1		0205	26	2.	1		0820	101	14.	1		1435	176	5.	1		2050	251	0.

1	0210	27	3.	*	1	0825	102	13.	*	1	1440	177	5.	*	1	2055	252	0.
1	0215	28	3.	*	1	0830	103	13.	*	1	1445	178	5.	*	1	2100	253	0.
1	0220	29	3.	*	1	0835	104	13.	*	1	1450	179	5.	*	1	2105	254	0.
1	0225	30	3.	*	1	0840	105	13.	*	1	1455	180	5.	*	1	2110	255	0.
1	0230	31	3.	*	1	0845	106	13.	*	1	1500	181	5.	*	1	2115	256	0.
1	0235	32	3.	*	1	0850	107	12.	*	1	1505	182	5.	*	1	2120	257	0.
1	0240	33	3.	*	1	0855	108	12.	*	1	1510	183	5.	*	1	2125	258	0.
1	0245	34	3.	*	1	0900	109	12.	*	1	1515	184	4.	*	1	2130	259	0.
1	0250	35	3.	*	1	0905	110	12.	*	1	1520	185	4.	*	1	2135	260	0.
1	0255	36	3.	*	1	0910	111	12.	*	1	1525	186	4.	*	1	2140	261	0.
1	0300	37	3.	*	1	0915	112	12.	*	1	1530	187	4.	*	1	2145	262	0.
1	0305	38	3.	*	1	0920	113	12.	*	1	1535	188	4.	*	1	2150	263	0.
1	0310	39	3.	*	1	0925	114	12.	*	1	1540	189	4.	*	1	2155	264	0.
1	0315	40	4.	*	1	0930	115	12.	*	1	1545	190	4.	*	1	2200	265	0.
1	0320	41	4.	*	1	0935	116	11.	*	1	1550	191	4.	*	1	2205	266	0.
1	0325	42	4.	*	1	0940	117	11.	*	1	1555	192	4.	*	1	2210	267	0.
1	0330	43	4.	*	1	0945	118	11.	*	1	1600	193	3.	*	1	2215	268	0.
1	0335	44	4.	*	1	0950	119	11.	*	1	1605	194	3.	*	1	2220	269	0.
1	0340	45	5.	*	1	0955	120	11.	*	1	1610	195	3.	*	1	2225	270	0.
1	0345	46	6.	*	1	1000	121	11.	*	1	1615	196	3.	*	1	2230	271	0.
1	0350	47	9.	*	1	1005	122	11.	*	1	1620	197	3.	*	1	2235	272	0.
1	0355	48	15.	*	1	1010	123	11.	*	1	1625	198	2.	*	1	2240	273	0.
1	0400	49	32.	*	1	1015	124	11.	*	1	1630	199	2.	*	1	2245	274	0.
1	0405	50	60.	*	1	1020	125	11.	*	1	1635	200	2.	*	1	2250	275	0.
1	0410	51	102.	*	1	1025	126	10.	*	1	1640	201	2.	*	1	2255	276	0.
1	0415	52	140.	*	1	1030	127	10.	*	1	1645	202	2.	*	1	2300	277	0.
1	0420	53	164.	*	1	1035	128	10.	*	1	1650	203	2.	*	1	2305	278	0.
1	0425	54	177.	*	1	1040	129	10.	*	1	1655	204	2.	*	1	2310	279	0.
1	0430	55	191.	*	1	1045	130	10.	*	1	1700	205	2.	*	1	2315	280	0.
1	0435	56	288.	*	1	1050	131	10.	*	1	1705	206	2.	*	1	2320	281	0.
1	0440	57	342.	*	1	1055	132	10.	*	1	1710	207	1.	*	1	2325	282	0.
1	0445	58	348.	*	1	1100	133	10.	*	1	1715	208	1.	*	1	2330	283	0.
1	0450	59	335.	*	1	1105	134	10.	*	1	1720	209	1.	*	1	2335	284	0.
1	0455	60	319.	*	1	1110	135	9.	*	1	1725	210	1.	*	1	2340	285	0.
1	0500	61	301.	*	1	1115	136	9.	*	1	1730	211	1.	*	1	2345	286	0.
1	0505	62	285.	*	1	1120	137	9.	*	1	1735	212	1.	*	1	2350	287	0.
1	0510	63	269.	*	1	1125	138	9.	*	1	1740	213	1.	*	1	2355	288	0.
1	0515	64	249.	*	1	1130	139	9.	*	1	1745	214	1.	*	2	0000	289	0.
1	0520	65	237.	*	1	1135	140	9.	*	1	1750	215	1.	*	2	0005	290	0.
1	0525	66	226.	*	1	1140	141	9.	*	1	1755	216	1.	*	2	0010	291	0.
1	0530	67	216.	*	1	1145	142	9.	*	1	1800	217	1.	*	2	0015	292	0.
1	0535	68	207.	*	1	1150	143	9.	*	1	1805	218	1.	*	2	0020	293	0.
1	0540	69	199.	*	1	1155	144	9.	*	1	1810	219	1.	*	2	0025	294	0.
1	0545	70	190.	*	1	1200	145	9.	*	1	1815	220	1.	*	2	0030	295	0.
1	0550	71	179.	*	1	1205	146	8.	*	1	1820	221	1.	*	2	0035	296	0.
1	0555	72	168.	*	1	1210	147	8.	*	1	1825	222	1.	*	2	0040	297	0.
1	0600	73	157.	*	1	1215	148	8.	*	1	1830	223	1.	*	2	0045	298	0.
1	0605	74	143.	*	1	1220	149	8.	*	1	1835	224	1.	*	2	0050	299	0.
1	0610	75	118.	*	1	1225	150	8.	*	1	1840	225	1.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)					
		(CFS)				
348.	4.75		92.	25.	24.	24.
		(INCHES)	1.122	1.241	1.241	1.241

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                    (AC-FT)       45.        50.        50.        50.

                    CUMULATIVE AREA =     .76 SQ MI


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


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          *            *
 131 KK   *    Route   *      water through phase 2 channel thru existing 60 " rcps
          *            *
          **************

 137 KO         OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

             HYDROGRAPH ROUTING DATA

 132 RS         STORAGE ROUTING
                      NSTPS          1  NUMBER OF SUBREACHES
                       ITYP       ELEV  TYPE OF INITIAL CONDITION
                     RSVRIC     974.00  INITIAL CONDITION
                          X        .00 WORKING R AND D COEFFICIENT

 133 SV           STORAGE        .0      3.6      7.3     12.1     18.2     25.5     34.0     43.7     54.7

 134 SE         ELEVATION     974.00   977.00   978.00   979.00   980.00   981.00   982.00   983.00   984.00

 135 SQ         DISCHARGE       0.       0.       15.      41.      90.      151.     220.     287.     345.

 136 SE         ELEVATION     974.00   977.00   978.00   979.00   980.00   981.00   982.00   983.00   984.00

                                                          ***

                                        COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

          STORAGE       .00     3.64     7.29    12.14    18.22    25.50    34.00    43.72    54.65
          OUTFLOW       .00      .00    14.90    41.02    90.10   151.37   220.14   286.54   345.40
        ELEVATION    974.00   977.00   978.00   979.00   980.00   981.00   982.00   983.00   984.00

*************************************************************************************************************************************

                                        HYDROGRAPH AT STATION    Route

*************************************************************************************************************************************
                                        *                                        *
 DA MON HRMN ORD  OUTFLOW  STORAGE   STAGE * DA MON HRMN ORD  OUTFLOW  STORAGE   STAGE * DA MON HRMN ORD  OUTFLOW  STORAGE   STAGE
                                        *                                        *
  1    0000   1      0.       .0   974.0 *  1    0820 101      52.      13.5   979.2 *  1    1640 201       7.       5.4   977.5
  1    0005   2      0.       .0   974.0 *  1    0825 102      50.      13.2   979.2 *  1    1645 202       7.       5.4   977.5
  1    0010   3      0.       .0   974.0 *  1    0830 103      48.      13.0   979.1 *  1    1650 203       7.       5.3   977.5
  1    0015   4      0.       .0   974.0 *  1    0835 104      46.      12.8   979.1 *  1    1655 204       7.       5.3   977.5
  1    0020   5      0.       .0   974.0 *  1    0840 105      44.      12.5   979.1 *  1    1700 205       7.       5.3   977.4
```

1	0025	6	0.	.0	974.0	*	1	0845	106	43.	12.3	979.0	*	1	1705	206	7.	5.2	977.4
1	0030	7	0.	.0	974.0	*	1	0850	107	41.	12.1	979.0	*	1	1710	207	6.	5.2	977.4
1	0035	8	0.	.0	974.0	*	1	0855	108	40.	11.9	979.0	*	1	1715	208	6.	5.2	977.4
1	0040	9	0.	.0	974.0	*	1	0900	109	39.	11.7	978.9	*	1	1720	209	6.	5.1	977.4
1	0045	10	0.	.0	974.0	*	1	0905	110	38.	11.6	978.9	*	1	1725	210	6.	5.1	977.4
1	0050	11	0.	.0	974.0	*	1	0910	111	37.	11.4	978.8	*	1	1730	211	6.	5.1	977.4
1	0055	12	0.	.0	974.0	*	1	0915	112	36.	11.2	978.8	*	1	1735	212	6.	5.0	977.4
1	0100	13	0.	.0	974.0	*	1	0920	113	35.	11.1	978.8	*	1	1740	213	6.	5.0	977.4
1	0105	14	0.	.0	974.0	*	1	0925	114	34.	10.9	978.7	*	1	1745	214	5.	5.0	977.4
1	0110	15	0.	.0	974.0	*	1	0930	115	34.	10.7	978.7	*	1	1750	215	5.	4.9	977.4
1	0115	16	0.	.0	974.0	*	1	0935	116	33.	10.6	978.7	*	1	1755	216	5.	4.9	977.3
1	0120	17	0.	.0	974.0	*	1	0940	117	32.	10.5	978.7	*	1	1800	217	5.	4.9	977.3
1	0125	18	0.	.1	974.0	*	1	0945	118	31.	10.3	978.6	*	1	1805	218	5.	4.9	977.3
1	0130	19	0.	.1	974.1	*	1	0950	119	30.	10.2	978.6	*	1	1810	219	5.	4.8	977.3
1	0135	20	0.	.1	974.1	*	1	0955	120	30.	10.0	978.6	*	1	1815	220	5.	4.8	977.3
1	0140	21	0.	.1	974.1	*	1	1000	121	29.	9.9	978.5	*	1	1820	221	5.	4.8	977.3
1	0145	22	0.	.1	974.1	*	1	1005	122	28.	9.8	978.5	*	1	1825	222	5.	4.7	977.3
1	0150	23	0.	.1	974.1	*	1	1010	123	28.	9.7	978.5	*	1	1830	223	4.	4.7	977.3
1	0155	24	0.	.1	974.1	*	1	1015	124	27.	9.6	978.5	*	1	1835	224	4.	4.7	977.3
1	0200	25	0.	.2	974.1	*	1	1020	125	27.	9.5	978.4	*	1	1840	225	4.	4.7	977.3
1	0205	26	0.	.2	974.1	*	1	1025	126	26.	9.3	978.4	*	1	1845	226	4.	4.6	977.3
1	0210	27	0.	.2	974.2	*	1	1030	127	25.	9.2	978.4	*	1	1850	227	4.	4.6	977.3
1	0215	28	0.	.2	974.2	*	1	1035	128	25.	9.1	978.4	*	1	1855	228	4.	4.6	977.3
1	0220	29	0.	.2	974.2	*	1	1040	129	24.	9.0	978.4	*	1	1900	229	4.	4.6	977.3
1	0225	30	0.	.2	974.2	*	1	1045	130	24.	8.9	978.3	*	1	1905	230	4.	4.5	977.2
1	0230	31	0.	.3	974.2	*	1	1050	131	23.	8.8	978.3	*	1	1910	231	4.	4.5	977.2
1	0235	32	0.	.3	974.2	*	1	1055	132	23.	8.8	978.3	*	1	1915	232	4.	4.5	977.2
1	0240	33	0.	.3	974.2	*	1	1100	133	22.	8.7	978.3	*	1	1920	233	3.	4.5	977.2
1	0245	34	0.	.3	974.3	*	1	1105	134	22.	8.6	978.3	*	1	1925	234	3.	4.5	977.2
1	0250	35	0.	.3	974.3	*	1	1110	135	21.	8.5	978.2	*	1	1930	235	3.	4.4	977.2
1	0255	36	0.	.4	974.3	*	1	1115	136	21.	8.4	978.2	*	1	1935	236	3.	4.4	977.2
1	0300	37	0.	.4	974.3	*	1	1120	137	21.	8.3	978.2	*	1	1940	237	3.	4.4	977.2
1	0305	38	0.	.4	974.3	*	1	1125	138	20.	8.3	978.2	*	1	1945	238	3.	4.4	977.2
1	0310	39	0.	.4	974.4	*	1	1130	139	20.	8.2	978.2	*	1	1950	239	3.	4.4	977.2
1	0315	40	0.	.5	974.4	*	1	1135	140	19.	8.1	978.2	*	1	1955	240	3.	4.3	977.2
1	0320	41	0.	.5	974.4	*	1	1140	141	19.	8.0	978.2	*	1	2000	241	3.	4.3	977.2
1	0325	42	0.	.5	974.4	*	1	1145	142	19.	8.0	978.1	*	1	2005	242	3.	4.3	977.2
1	0330	43	0.	.5	974.4	*	1	1150	143	18.	7.9	978.1	*	1	2010	243	3.	4.3	977.2
1	0335	44	0.	.6	974.5	*	1	1155	144	18.	7.8	978.1	*	1	2015	244	3.	4.3	977.2
1	0340	45	0.	.6	974.5	*	1	1200	145	18.	7.8	978.1	*	1	2020	245	3.	4.3	977.2
1	0345	46	0.	.6	974.5	*	1	1205	146	17.	7.7	978.1	*	1	2025	246	2.	4.2	977.2
1	0350	47	0.	.7	974.6	*	1	1210	147	17.	7.7	978.1	*	1	2030	247	2.	4.2	977.2
1	0355	48	0.	.8	974.6	*	1	1215	148	17.	7.6	978.1	*	1	2035	248	2.	4.2	977.2
1	0400	49	0.	.9	974.8	*	1	1220	149	16.	7.5	978.1	*	1	2040	249	2.	4.2	977.2
1	0405	50	0.	1.2	975.0	*	1	1225	150	16.	7.5	978.0	*	1	2045	250	2.	4.2	977.1
1	0410	51	0.	1.8	975.5	*	1	1230	151	16.	7.4	978.0	*	1	2050	251	2.	4.2	977.1
1	0415	52	0.	2.6	976.2	*	1	1235	152	15.	7.4	978.0	*	1	2055	252	2.	4.2	977.1
1	0420	53	0.	3.7	977.0	*	1	1240	153	15.	7.3	978.0	*	1	2100	253	2.	4.1	977.1
1	0425	54	5.	4.8	977.3	*	1	1245	154	15.	7.3	978.0	*	1	2105	254	2.	4.1	977.1
1	0430	55	10.	6.1	977.7	*	1	1250	155	15.	7.2	978.0	*	1	2110	255	2.	4.1	977.1
1	0435	56	17.	7.6	978.1	*	1	1255	156	14.	7.2	978.0	*	1	2115	256	2.	4.1	977.1
1	0440	57	27.	9.6	978.5	*	1	1300	157	14.	7.1	978.0	*	1	2120	257	2.	4.1	977.1
1	0445	58	39.	11.8	978.9	*	1	1305	158	14.	7.1	977.9	*	1	2125	258	2.	4.1	977.1
1	0450	59	54.	13.8	979.3	*	1	1310	159	14.	7.0	977.9	*	1	2130	259	2.	4.1	977.1
1	0455	60	69.	15.6	979.6	*	1	1315	160	14.	7.0	977.9	*	1	2135	260	2.	4.1	977.1
1	0500	61	82.	17.2	979.8	*	1	1320	161	13.	6.9	977.9	*	1	2140	261	2.	4.0	977.1
1	0505	62	94.	18.7	980.1	*	1	1325	162	13.	6.9	977.9	*	1	2145	262	2.	4.0	977.1
1	0510	63	104.	19.9	980.2	*	1	1330	163	13.	6.9	977.9	*	1	2150	263	2.	4.0	977.1

1	0515	64	113.	20.9	980.4	*	1	1335	164	13.	6.8	977.9	*	1	2155	264	2.	4.0	977.1
1	0520	65	120.	21.8	980.5	*	1	1340	165	13.	6.8	977.9	*	1	2200	265	1.	4.0	977.1
1	0525	66	126.	22.5	980.6	*	1	1345	166	13.	6.7	977.8	*	1	2205	266	1.	4.0	977.1
1	0530	67	132.	23.2	980.7	*	1	1350	167	12.	6.7	977.8	*	1	2210	267	1.	4.0	977.1
1	0535	68	136.	23.7	980.8	*	1	1355	168	12.	6.6	977.8	*	1	2215	268	1.	4.0	977.1
1	0540	69	140.	24.2	980.8	*	1	1400	169	12.	6.6	977.8	*	1	2220	269	1.	4.0	977.1
1	0545	70	143.	24.5	980.9	*	1	1405	170	12.	6.6	977.8	*	1	2225	270	1.	4.0	977.1
1	0550	71	145.	24.8	980.9	*	1	1410	171	12.	6.5	977.8	*	1	2230	271	1.	3.9	977.1
1	0555	72	147.	25.0	980.9	*	1	1415	172	12.	6.5	977.8	*	1	2235	272	1.	3.9	977.1
1	0600	73	148.	25.1	980.9	*	1	1420	173	11.	6.4	977.8	*	1	2240	273	1.	3.9	977.1
1	0605	74	148.	25.1	980.9	*	1	1425	174	11.	6.4	977.8	*	1	2245	274	1.	3.9	977.1
1	0610	75	147.	25.0	980.9	*	1	1430	175	11.	6.3	977.7	*	1	2250	275	1.	3.9	977.1
1	0615	76	144.	24.7	980.9	*	1	1435	176	11.	6.3	977.7	*	1	2255	276	1.	3.9	977.1
1	0620	77	140.	24.2	980.8	*	1	1440	177	11.	6.3	977.7	*	1	2300	277	1.	3.9	977.1
1	0625	78	136.	23.6	980.7	*	1	1445	178	11.	6.2	977.7	*	1	2305	278	1.	3.9	977.1
1	0630	79	130.	23.0	980.7	*	1	1450	179	10.	6.2	977.7	*	1	2310	279	1.	3.9	977.1
1	0635	80	125.	22.4	980.6	*	1	1455	180	10.	6.2	977.7	*	1	2315	280	1.	3.9	977.1
1	0640	81	120.	21.8	980.5	*	1	1500	181	10.	6.1	977.7	*	1	2320	281	1.	3.9	977.1
1	0645	82	115.	21.2	980.4	*	1	1505	182	10.	6.1	977.7	*	1	2325	282	1.	3.9	977.1
1	0650	83	111.	20.7	980.3	*	1	1510	183	10.	6.0	977.7	*	1	2330	283	1.	3.9	977.1
1	0655	84	106.	20.1	980.3	*	1	1515	184	10.	6.0	977.6	*	1	2335	284	1.	3.9	977.1
1	0700	85	102.	19.6	980.2	*	1	1520	185	10.	6.0	977.6	*	1	2340	285	1.	3.8	977.1
1	0705	86	97.	19.1	980.1	*	1	1525	186	9.	5.9	977.6	*	1	2345	286	1.	3.8	977.1
1	0710	87	93.	18.6	980.0	*	1	1530	187	9.	5.9	977.6	*	1	2350	287	1.	3.8	977.1
1	0715	88	89.	18.1	980.0	*	1	1535	188	9.	5.9	977.6	*	1	2355	288	1.	3.8	977.1
1	0720	89	85.	17.6	979.9	*	1	1540	189	9.	5.8	977.6	*	2	0000	289	1.	3.8	977.1
1	0725	90	82.	17.2	979.8	*	1	1545	190	9.	5.8	977.6	*	2	0005	290	1.	3.8	977.0
1	0730	91	79.	16.8	979.8	*	1	1550	191	9.	5.8	977.6	*	2	0010	291	1.	3.8	977.0
1	0735	92	75.	16.4	979.7	*	1	1555	192	9.	5.7	977.6	*	2	0015	292	1.	3.8	977.0
1	0740	93	72.	16.0	979.6	*	1	1600	193	8.	5.7	977.6	*	2	0020	293	1.	3.8	977.0
1	0745	94	69.	15.7	979.6	*	1	1605	194	8.	5.7	977.6	*	2	0025	294	1.	3.8	977.0
1	0750	95	67.	15.3	979.5	*	1	1610	195	8.	5.6	977.5	*	2	0030	295	1.	3.8	977.0
1	0755	96	64.	15.0	979.5	*	1	1615	196	8.	5.6	977.5	*	2	0035	296	1.	3.8	977.0
1	0800	97	61.	14.7	979.4	*	1	1620	197	8.	5.6	977.5	*	2	0040	297	1.	3.8	977.0
1	0805	98	59.	14.3	979.4	*	1	1625	198	8.	5.5	977.5	*	2	0045	298	1.	3.8	977.0
1	0810	99	56.	14.1	979.3	*	1	1630	199	8.	5.5	977.5	*	2	0050	299	1.	3.8	977.0
1	0815	100	54.	13.8	979.3	*	1	1635	200	7.	5.4	977.5	*	2	0055	300	1.	3.8	977.0
						*							*						

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)					
		(CFS)				
148.	6.08		76.	23.	23.	23.
		(INCHES)	.926	1.148	1.148	1.148
		(AC-FT)	37.	46.	46.	46.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
(AC-FT)	(HR)				
25.	6.08	16.	7.	7.	7.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
(FEET)	(HR)				
980.94	6.08	979.60	977.57	977.44	977.44

CUMULATIVE AREA = .76 SQ MI

RUNOFF SUMMARY
FLOW IN CUBIC FEET PER SECOND
TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD 6-HOUR	24-HOUR	72-HOUR	BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
HYDROGRAPH AT	DEVELO	294.	4.42	56.	14.	14.	.41		
ROUTED TO	Node17	168.	5.00	56.	14.	14.	.41	82.77	5.00
ROUTED TO	Node10	168.	5.00	56.	14.	14.	.41	8.60	5.00
HYDROGRAPH AT	DEVELO	45.	4.17	7.	2.	2.	.04		
ROUTED TO	Node7	33.	4.58	3.	1.	1.	.04		
2 COMBINED AT	Node11	193.	4.58	59.	15.	14.	.45		
ROUTED TO	Node10	188.	4.67	59.	15.	14.	.45	8.77	4.67
HYDROGRAPH AT	DEVELO	12.	4.17	2.	0.	0.	.01		
ROUTED TO	Node8	8.	4.58	1.	0.	0.	.01		
2 COMBINED AT	Node13	193.	4.67	60.	15.	14.	.46		
ROUTED TO	Node10	192.	4.75	60.	15.	14.	.46	8.79	4.75
HYDROGRAPH AT	DEVELO	203.	4.33	36.	9.	9.	.25		
ROUTED TO	Node9	138.	4.75	28.	9.	9.	.25	11.48	4.75
2 COMBINED AT	Node15	329.	4.75	86.	24.	23.	.71		
HYDROGRAPH AT	Develo	38.	4.25	5.	1.	1.	.04		

2 COMBINED AT									
	Node16	348.	4.75	92.	25.	24.	.76		
ROUTED TO									
	Route	148.	6.08	76.	23.	23.	.76		
								980.94	6.08

*** NORMAL END OF HEC-1 ***

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****************************************
*                                      *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)  *
*            SEPTEMBER 1990            *
*             VERSION 4.0              *
*                                      *
*  RUN DATE  10/16/1997  TIME  09:55:04 *
*                                      *
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*                                      *
*    U.S. ARMY CORPS OF ENGINEERS      *
*    HYDROLOGIC ENGINEERING CENTER     *
*          609 SECOND STREET           *
*       DAVIS, CALIFORNIA 95616        *
*           (916) 756-1104             *
*                                      *
****************************************
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X     X  XXXXXXX   XXXXX          X
X     X  X        X     X        XX
X     X  X        X              X
XXXXXXX  XXXX     X       XXXXX  X
X     X  X        X              X
X     X  X        X     X        X
X     X  XXXXXXX   XXXXX         XXX
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THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

MODEL #6 - Phase 2 2-Year w/ Flapgates Closed on Channel

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  1           ID       model #6
  2           IT       5                    300
  3           IO       2

  4           KK  DEVELOP RAINFALL FOR BASIN G1
  5           KM   6-HOUR RAINFALL PATTERN NO. 1.23 WAS USED TO FIND TC & R FOR THIS BASIN
  6           KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .990
  7           KM  L = 1.17  Kb = .050  Adj. Slope =   21.3
  8           BA    .413
  9           PB   1.188
 10           IN      15
 11           PC    .000    .008    .016    .025    .033    .041    .050    .058    .066    .074
 12           PC    .087    .099    .118    .144    .224    .394    .801    .894    .924    .947
 13           PC    .959    .970    .981    .990   1.000
 14           LG    .430    .255   3.500    .515   7.000
 15           UC   1.000    .694
 16           UA       0       5      16      30      65      77      84      90      94      97
 17           UA     100
 18           KO       2

 19           KK  Node17
 20           KM  basin routing through transfer drain culverts
 21           RS       1    STOR       0       0
 22           SV       0     .02     .11      .2    1.79    3.38    7.57   13.81
 23           SE   77.82      78      79      80      81      82      83      84
 24           SL   77.82   15.70      .6      .5
 25           SS   83.80      15       3     1.5
 26           KO       2

 27           KK  Node10
 28           KM  Route water from culverts to middle of subdivision
 29           RS       1    STOR       0       0
 30           RC    .035    .035    .035     650   .0022      15
 31           RX       0      20     120   136.6   146.6   162.2   262.2   282.2
 32           RY      15      11      10    5.85    5.85      10      11      15
 33           KO       2

 34           KK  DEVELOPE RAINFALL FOR SUBBASIN G2
 35           KM   6-HOUR RAINFALL PATTERN NO. 1.23 WAS USED TO FIND TC & R FOR THIS BASIN
 36           KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .990
 37           KM  L =  .41  Kb = .064  Adj. Slope =   48.9
 38           BA    .040
 39           PB   1.188
 40           LG    .430    .255   3.500   0.515  30.000
 41           UC    .796    .881
 42           UA       0       5      16      30      65      77      84      90      94      97
 43           UA     100
 44           KO       2

 45           KK  Node7
 46           KM  Route flow through basin to remove developed area storage
 47           RS       1    STOR       0       0
 48           SV       0    2.13    2.15    2.16    2.17    2.18    2.19    2.20    2.25     2.5
 49           SV    2.75
```

50	SQ	0	0	20	30	40	50	60	70	100	150

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  51          SQ     200
  52          KO       2

  53          KK  Node11
  54          KM  conflunce g1 and g2
  55          HC       2
  56          KO       2

  57          KK  Node10
  58          KM  Route water from culverts to middle of subdivision
  59          RS       1    STOR       0       0
  60          RC    .035    .035    .035     650   .0022      15
  61          RX       0      20     120   136.6   146.6   162.2   262.2   282.2
  62          RY      15      11      10    5.85    5.85      10      11      15
  63          KO       2

  64          KK  DEVELOPE RAINFALL FOR G3
  65          KM   6-HOUR RAINFALL PATTERN NO. 1.23 WAS USED TO FIND TC & R FOR THIS BASIN
  66          KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .990
  67          KM  L =  .30  Kb = .072  Adj. Slope =   60.9
  68          BA    .010
  69          PB   1.188
  70          LG    .430    .255   3.500    .515  30.000
  71          UC    .642   1.191
  72          UA       0       5      16      30      65      77      84      90      94      97
  73          UA     100
  74          KO       2

  75          KK  Node8
  76          KM  Route area through subdivision to remove retention storage
  77          RS       1    STOR       0       0
  78          SV       0     .58     .60     .61     .62     .63     .64
  79          SQ       0       0      10      20      30      40      50
  80          KO       2

  81          KK  Node13
  82          KM  confluence g1-g2 with g3
  83          KO       2
  84          HC       2
  85          KO       2

  86          KK  Node10
  87          KM  Route water from  middle of subdivision to old mcdowell
  88          RS       1    STOR       0       0
  89          RC    .035    .035    .035     650   .0022      15
  90          RX       0      20     120   136.6   146.6   162.2   262.2   282.2
  91          RY      15      11      10    5.85    5.85      10      11      15
  92          KO       2

  93          KK  DEVELOP RAINFALL FOR SUBBASIN G4
  94          KM   6-HOUR RAINFALL PATTERN NO. 1.23 WAS USED TO FIND TC & R FOR THIS BASIN
  95          KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .990
  96          KM  L =  .98  Kb = .064  Adj. Slope =   26.3
  97          BA    .252
```

```
LINE        ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 99         LG    .430    .255   3.500    .515  10.470
100         UC   1.000    .799
101         UA       0       5      16      30      65      77      84      90      94      97
102         UA     100
103         KO       2

104         KK  Node9
105         KM  Route water through detention basin to remove subdivision storage
106         RS       1    STOR       0       0
107         SV       0    7.58    7.60    7.70    7.80
108         SE       0      10      11      12      13
109         SL       0       1      .6      .5
110         SS      10      50     2.7     1.5
111         KO       2

112         KK  Node15
113         KM  confluence g1-g2-g3 with g4
114         HC       2
115         KO       2

116         KK  Develope rainfall for phase 2 area
117         KM   6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
118         KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
119         KM  L =  .072  Kb = .064  Adj. Slope =   9.9
120         BA    .043
121         PB   1.188
122         LG    .430    .255   3.500    .515   0.000
123         UC   1.000   0.938
124         UA       0       5      16      30      65      77      84      90      94      97
125         UA     100
126         KO       2

127         KK  Node16
128         KM  confluence g1-g2-g3-g4 and phase 2
129         HC       2
130         KO       2

131         KK  Route water through in Phase 2 channel and close flapgates on culverts
132         RS       1    STOR       0       0
133         SV       0    1.21    3.64    7.29   12.14   18.22   25.50   34.00   43.72   54.65
134         SE     974     976     977     978     979     980     981     982     983     984
135         SQ       0       0       0       0       0       0       0       0       0       0
136         SE     974     976     977     978     979     980     981     982     983     984
137         KO       2
138         ZZ
```

```
****************************************
*                                      *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)  *
*            SEPTEMBER 1990            *
*             VERSION 4.0              *
*                                      *
* RUN DATE  06/09/1998  TIME  16:05:14 *
*                                      *
****************************************
```

```
****************************************
*                                      *
*   U.S. ARMY CORPS OF ENGINEERS       *
*   HYDROLOGIC ENGINEERING CENTER      *
*         609 SECOND STREET            *
*      DAVIS, CALIFORNIA 95616         *
*          (916) 756-1104              *
*                                      *
****************************************
```

model #6

```
  3 IO        OUTPUT CONTROL VARIABLES
                    IPRNT          2  PRINT CONTROL
                    IPLOT          0  PLOT CONTROL
                    QSCAL         0.  HYDROGRAPH PLOT SCALE

    IT        HYDROGRAPH TIME DATA
                     NMIN          5  MINUTES IN COMPUTATION INTERVAL
                    IDATE     1    0  STARTING DATE
                    ITIME       0000  STARTING TIME
                       NQ        300  NUMBER OF HYDROGRAPH ORDINATES
                   NDDATE     2    0  ENDING DATE
                   NDTIME       0055  ENDING TIME
                    ICENT         19  CENTURY MARK

                COMPUTATION INTERVAL     .08 HOURS
                     TOTAL TIME BASE   24.92 HOURS

        ENGLISH UNITS
             DRAINAGE AREA         SQUARE MILES
             PRECIPITATION DEPTH   INCHES
             LENGTH, ELEVATION     FEET
             FLOW                  CUBIC FEET PER SECOND
             STORAGE VOLUME        ACRE-FEET
             SURFACE AREA          ACRES
             TEMPERATURE           DEGREES FAHRENHEIT
```

*** ***

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          **************
          *            *
  4 KK    *   DEVELO   *     P RAINFALL FOR BASIN G1
          *            *
          **************
                    6-HOUR RAINFALL PATTERN NO. 1.23 WAS USED TO FIND TC & R FOR THIS BASIN
                    THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .990
                   L = 1.17  Kb = .050  Adj. Slope =   21.3

 10 IN        TIME DATA FOR INPUT TIME SERIES
                   JXMIN         15  TIME INTERVAL IN MINUTES
```

```
                JXDATE      1    0  STARTING DATE
                JXTIME           0  STARTING TIME

18 KO         OUTPUT CONTROL VARIABLES
                IPRNT            2  PRINT CONTROL
                IPLOT            0  PLOT CONTROL
                QSCAL           0.  HYDROGRAPH PLOT SCALE

            SUBBASIN RUNOFF DATA

 8 BA         SUBBASIN CHARACTERISTICS
                TAREA          .41  SUBBASIN AREA

              PRECIPITATION DATA

 9 PB           STORM         1.19  BASIN TOTAL PRECIPITATION

11 PI           INCREMENTAL PRECIPITATION PATTERN
                 .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                 .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                 .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                 .00       .00       .00       .01       .01       .01       .01       .01       .01       .03
                 .03       .03       .06       .06       .06       .14       .14       .14       .03       .03
                 .03       .01       .01       .01       .01       .01       .01       .00       .00       .00
                 .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                 .00       .00

14 LG         GREEN AND AMPT LOSS RATE
                STRTL         .43  STARTING LOSS
                  DTH         .25  MOISTURE DEFICIT
                 PSIF        3.50  WETTING FRONT SUCTION
                XKSAT         .51  HYDRAULIC CONDUCTIVITY
                RTIMP        7.00  PERCENT IMPERVIOUS AREA

15 UC         CLARK UNITGRAPH
                   TC        1.00  TIME OF CONCENTRATION
                    R         .69  STORAGE COEFFICIENT

16 UA         ACCUMULATED-AREA VS. TIME,  11 ORDINATES
                   .0       5.0      16.0      30.0      65.0      77.0      84.0      90.0      94.0      97.0
                100.0

                                                  ***

                                          UNIT HYDROGRAPH PARAMETERS
                                     CLARK   TC=  1.00 HR,       R=   .69 HR
                                    SNYDER   TP=   .54 HR,      CP=   .44

                                            UNIT HYDROGRAPH
                                      50 END-OF-PERIOD ORDINATES
            8.       29.       60.      106.      174.      218.      222.      217.      209.      198.
          186.      174.      158.      140.      125.      110.       98.       87.       77.       68.
           61.       54.       48.       42.       37.       33.       29.       26.       23.       21.
           18.       16.       14.       13.       11.       10.        9.        8.        7.        6.
            5.        5.        4.        4.        3.        3.        3.        2.        2.        2.
```

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HYDROGRAPH AT STATION DEVELO

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1		0000	1	.00	.00	.00	0.	1		1230	151	.00	.00	.00	0.
1		0005	2	.00	.00	.00	0.	1		1235	152	.00	.00	.00	0.
1		0010	3	.00	.00	.00	0.	1		1240	153	.00	.00	.00	0.
1		0015	4	.00	.00	.00	0.	1		1245	154	.00	.00	.00	0.
1		0020	5	.00	.00	.00	0.	1		1250	155	.00	.00	.00	0.
1		0025	6	.00	.00	.00	0.	1		1255	156	.00	.00	.00	0.
1		0030	7	.00	.00	.00	0.	1		1300	157	.00	.00	.00	0.
1		0035	8	.00	.00	.00	0.	1		1305	158	.00	.00	.00	0.
1		0040	9	.00	.00	.00	0.	1		1310	159	.00	.00	.00	0.
1		0045	10	.00	.00	.00	0.	1		1315	160	.00	.00	.00	0.
1		0050	11	.00	.00	.00	0.	1		1320	161	.00	.00	.00	0.
1		0055	12	.00	.00	.00	0.	1		1325	162	.00	.00	.00	0.
1		0100	13	.00	.00	.00	0.	1		1330	163	.00	.00	.00	0.
1		0105	14	.00	.00	.00	0.	1		1335	164	.00	.00	.00	0.
1		0110	15	.00	.00	.00	0.	1		1340	165	.00	.00	.00	0.
1		0115	16	.00	.00	.00	1.	1		1345	166	.00	.00	.00	0.
1		0120	17	.00	.00	.00	1.	1		1350	167	.00	.00	.00	0.
1		0125	18	.00	.00	.00	1.	1		1355	168	.00	.00	.00	0.
1		0130	19	.00	.00	.00	1.	1		1400	169	.00	.00	.00	0.
1		0135	20	.00	.00	.00	1.	1		1405	170	.00	.00	.00	0.
1		0140	21	.00	.00	.00	1.	1		1410	171	.00	.00	.00	0.
1		0145	22	.00	.00	.00	1.	1		1415	172	.00	.00	.00	0.
1		0150	23	.00	.00	.00	1.	1		1420	173	.00	.00	.00	0.
1		0155	24	.00	.00	.00	1.	1		1425	174	.00	.00	.00	0.
1		0200	25	.00	.00	.00	1.	1		1430	175	.00	.00	.00	0.
1		0205	26	.00	.00	.00	1.	1		1435	176	.00	.00	.00	0.
1		0210	27	.00	.00	.00	1.	1		1440	177	.00	.00	.00	0.
1		0215	28	.00	.00	.00	1.	1		1445	178	.00	.00	.00	0.
1		0220	29	.01	.00	.00	1.	1		1450	179	.00	.00	.00	0.
1		0225	30	.01	.00	.00	1.	1		1455	180	.00	.00	.00	0.
1		0230	31	.01	.00	.00	1.	1		1500	181	.00	.00	.00	0.
1		0235	32	.00	.00	.00	1.	1		1505	182	.00	.00	.00	0.
1		0240	33	.00	.00	.00	1.	1		1510	183	.00	.00	.00	0.
1		0245	34	.00	.00	.00	1.	1		1515	184	.00	.00	.00	0.
1		0250	35	.01	.01	.00	1.	1		1520	185	.00	.00	.00	0.
1		0255	36	.01	.01	.00	1.	1		1525	186	.00	.00	.00	0.
1		0300	37	.01	.01	.00	1.	1		1530	187	.00	.00	.00	0.
1		0305	38	.01	.01	.00	1.	1		1535	188	.00	.00	.00	0.
1		0310	39	.01	.01	.00	1.	1		1540	189	.00	.00	.00	0.
1		0315	40	.01	.01	.00	1.	1		1545	190	.00	.00	.00	0.
1		0320	41	.03	.03	.00	1.	1		1550	191	.00	.00	.00	0.
1		0325	42	.03	.03	.00	1.	1		1555	192	.00	.00	.00	0.
1		0330	43	.03	.03	.00	1.	1		1600	193	.00	.00	.00	0.
1		0335	44	.07	.06	.00	2.	1		1605	194	.00	.00	.00	0.
1		0340	45	.07	.06	.00	2.	1		1610	195	.00	.00	.00	0.
1		0345	46	.07	.06	.00	3.	1		1615	196	.00	.00	.00	0.
1		0350	47	.16	.15	.01	3.	1		1620	197	.00	.00	.00	0.
1		0355	48	.16	.15	.01	4.	1		1625	198	.00	.00	.00	0.
1		0400	49	.16	.12	.04	6.	1		1630	199	.00	.00	.00	0.
1		0405	50	.04	.03	.00	8.	1		1635	200	.00	.00	.00	0.
1		0410	51	.04	.03	.00	11.	1		1640	201	.00	.00	.00	0.
1		0415	52	.04	.03	.00	14.	1		1645	202	.00	.00	.00	0.

1	0420	53	.01	.01	.00	17.	*	1	1650	203	.00	.00	.00	0.
1	0425	54	.01	.01	.00	19.	*	1	1655	204	.00	.00	.00	0.
1	0430	55	.01	.01	.00	19.	*	1	1700	205	.00	.00	.00	0.
1	0435	56	.01	.01	.00	18.	*	1	1705	206	.00	.00	.00	0.
1	0440	57	.01	.01	.00	18.	*	1	1710	207	.00	.00	.00	0.
1	0445	58	.01	.01	.00	17.	*	1	1715	208	.00	.00	.00	0.
1	0450	59	.00	.00	.00	16.	*	1	1720	209	.00	.00	.00	0.
1	0455	60	.00	.00	.00	15.	*	1	1725	210	.00	.00	.00	0.
1	0500	61	.00	.00	.00	13.	*	1	1730	211	.00	.00	.00	0.
1	0505	62	.00	.00	.00	12.	*	1	1735	212	.00	.00	.00	0.
1	0510	63	.00	.00	.00	11.	*	1	1740	213	.00	.00	.00	0.
1	0515	64	.00	.00	.00	10.	*	1	1745	214	.00	.00	.00	0.
1	0520	65	.00	.00	.00	9.	*	1	1750	215	.00	.00	.00	0.
1	0525	66	.00	.00	.00	8.	*	1	1755	216	.00	.00	.00	0.
1	0530	67	.00	.00	.00	7.	*	1	1800	217	.00	.00	.00	0.
1	0535	68	.00	.00	.00	7.	*	1	1805	218	.00	.00	.00	0.
1	0540	69	.00	.00	.00	6.	*	1	1810	219	.00	.00	.00	0.
1	0545	70	.00	.00	.00	5.	*	1	1815	220	.00	.00	.00	0.
1	0550	71	.00	.00	.00	5.	*	1	1820	221	.00	.00	.00	0.
1	0555	72	.00	.00	.00	4.	*	1	1825	222	.00	.00	.00	0.
1	0600	73	.00	.00	.00	4.	*	1	1830	223	.00	.00	.00	0.
1	0605	74	.00	.00	.00	4.	*	1	1835	224	.00	.00	.00	0.
1	0610	75	.00	.00	.00	3.	*	1	1840	225	.00	.00	.00	0.
1	0615	76	.00	.00	.00	3.	*	1	1845	226	.00	.00	.00	0.
1	0620	77	.00	.00	.00	3.	*	1	1850	227	.00	.00	.00	0.
1	0625	78	.00	.00	.00	2.	*	1	1855	228	.00	.00	.00	0.
1	0630	79	.00	.00	.00	2.	*	1	1900	229	.00	.00	.00	0.
1	0635	80	.00	.00	.00	2.	*	1	1905	230	.00	.00	.00	0.
1	0640	81	.00	.00	.00	2.	*	1	1910	231	.00	.00	.00	0.
1	0645	82	.00	.00	.00	2.	*	1	1915	232	.00	.00	.00	0.
1	0650	83	.00	.00	.00	1.	*	1	1920	233	.00	.00	.00	0.
1	0655	84	.00	.00	.00	1.	*	1	1925	234	.00	.00	.00	0.
1	0700	85	.00	.00	.00	1.	*	1	1930	235	.00	.00	.00	0.
1	0705	86	.00	.00	.00	1.	*	1	1935	236	.00	.00	.00	0.
1	0710	87	.00	.00	.00	1.	*	1	1940	237	.00	.00	.00	0.
1	0715	88	.00	.00	.00	1.	*	1	1945	238	.00	.00	.00	0.
1	0720	89	.00	.00	.00	1.	*	1	1950	239	.00	.00	.00	0.
1	0725	90	.00	.00	.00	1.	*	1	1955	240	.00	.00	.00	0.
1	0730	91	.00	.00	.00	1.	*	1	2000	241	.00	.00	.00	0.
1	0735	92	.00	.00	.00	0.	*	1	2005	242	.00	.00	.00	0.
1	0740	93	.00	.00	.00	0.	*	1	2010	243	.00	.00	.00	0.
1	0745	94	.00	.00	.00	0.	*	1	2015	244	.00	.00	.00	0.
1	0750	95	.00	.00	.00	0.	*	1	2020	245	.00	.00	.00	0.
1	0755	96	.00	.00	.00	0.	*	1	2025	246	.00	.00	.00	0.
1	0800	97	.00	.00	.00	0.	*	1	2030	247	.00	.00	.00	0.
1	0805	98	.00	.00	.00	0.	*	1	2035	248	.00	.00	.00	0.
1	0810	99	.00	.00	.00	0.	*	1	2040	249	.00	.00	.00	0.
1	0815	100	.00	.00	.00	0.	*	1	2045	250	.00	.00	.00	0.
1	0820	101	.00	.00	.00	0.	*	1	2050	251	.00	.00	.00	0.
1	0825	102	.00	.00	.00	0.	*	1	2055	252	.00	.00	.00	0.
1	0830	103	.00	.00	.00	0.	*	1	2100	253	.00	.00	.00	0.
1	0835	104	.00	.00	.00	0.	*	1	2105	254	.00	.00	.00	0.
1	0840	105	.00	.00	.00	0.	*	1	2110	255	.00	.00	.00	0.
1	0845	106	.00	.00	.00	0.	*	1	2115	256	.00	.00	.00	0.
1	0850	107	.00	.00	.00	0.	*	1	2120	257	.00	.00	.00	0.
1	0855	108	.00	.00	.00	0.	*	1	2125	258	.00	.00	.00	0.
1	0900	109	.00	.00	.00	0.	*	1	2130	259	.00	.00	.00	0.
1	0905	110	.00	.00	.00	0.	*	1	2135	260	.00	.00	.00	0.

1	0910	111	.00	.00	.00	0.	*	1	2140	261	.00	.00	.00	0.
1	0915	112	.00	.00	.00	0.	*	1	2145	262	.00	.00	.00	0.
1	0920	113	.00	.00	.00	0.	*	1	2150	263	.00	.00	.00	0.
1	0925	114	.00	.00	.00	0.	*	1	2155	264	.00	.00	.00	0.
1	0930	115	.00	.00	.00	0.	*	1	2200	265	.00	.00	.00	0.
1	0935	116	.00	.00	.00	0.	*	1	2205	266	.00	.00	.00	0.
1	0940	117	.00	.00	.00	0.	*	1	2210	267	.00	.00	.00	0.
1	0945	118	.00	.00	.00	0.	*	1	2215	268	.00	.00	.00	0.
1	0950	119	.00	.00	.00	0.	*	1	2220	269	.00	.00	.00	0.
1	0955	120	.00	.00	.00	0.	*	1	2225	270	.00	.00	.00	0.
1	1000	121	.00	.00	.00	0.	*	1	2230	271	.00	.00	.00	0.
1	1005	122	.00	.00	.00	0.	*	1	2235	272	.00	.00	.00	0.
1	1010	123	.00	.00	.00	0.	*	1	2240	273	.00	.00	.00	0.
1	1015	124	.00	.00	.00	0.	*	1	2245	274	.00	.00	.00	0.
1	1020	125	.00	.00	.00	0.	*	1	2250	275	.00	.00	.00	0.
1	1025	126	.00	.00	.00	0.	*	1	2255	276	.00	.00	.00	0.
1	1030	127	.00	.00	.00	0.	*	1	2300	277	.00	.00	.00	0.
1	1035	128	.00	.00	.00	0.	*	1	2305	278	.00	.00	.00	0.
1	1040	129	.00	.00	.00	0.	*	1	2310	279	.00	.00	.00	0.
1	1045	130	.00	.00	.00	0.	*	1	2315	280	.00	.00	.00	0.
1	1050	131	.00	.00	.00	0.	*	1	2320	281	.00	.00	.00	0.
1	1055	132	.00	.00	.00	0.	*	1	2325	282	.00	.00	.00	0.
1	1100	133	.00	.00	.00	0.	*	1	2330	283	.00	.00	.00	0.
1	1105	134	.00	.00	.00	0.	*	1	2335	284	.00	.00	.00	0.
1	1110	135	.00	.00	.00	0.	*	1	2340	285	.00	.00	.00	0.
1	1115	136	.00	.00	.00	0.	*	1	2345	286	.00	.00	.00	0.
1	1120	137	.00	.00	.00	0.	*	1	2350	287	.00	.00	.00	0.
1	1125	138	.00	.00	.00	0.	*	1	2355	288	.00	.00	.00	0.
1	1130	139	.00	.00	.00	0.	*	2	0000	289	.00	.00	.00	0.
1	1135	140	.00	.00	.00	0.	*	2	0005	290	.00	.00	.00	0.
1	1140	141	.00	.00	.00	0.	*	2	0010	291	.00	.00	.00	0.
1	1145	142	.00	.00	.00	0.	*	2	0015	292	.00	.00	.00	0.
1	1150	143	.00	.00	.00	0.	*	2	0020	293	.00	.00	.00	0.
1	1155	144	.00	.00	.00	0.	*	2	0025	294	.00	.00	.00	0.
1	1200	145	.00	.00	.00	0.	*	2	0030	295	.00	.00	.00	0.
1	1205	146	.00	.00	.00	0.	*	2	0035	296	.00	.00	.00	0.
1	1210	147	.00	.00	.00	0.	*	2	0040	297	.00	.00	.00	0.
1	1215	148	.00	.00	.00	0.	*	2	0045	298	.00	.00	.00	0.
1	1220	149	.00	.00	.00	0.	*	2	0050	299	.00	.00	.00	0.
1	1225	150	.00	.00	.00	0.	*	2	0055	300	.00	.00	.00	0.
							*							

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TOTAL RAINFALL = 1.19, TOTAL LOSS = 1.08, TOTAL EXCESS = .11

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
19.	4.50		5.	1.	1.	1.
		(INCHES)	.107	.110	.110	.110
		(AC-FT)	2.	2.	2.	2.

CUMULATIVE AREA = .41 SQ MI

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*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

          **************
          *            *
 19 KK    *   Node17   *
          *            *
          **************
                     basin routing through transfer drain culverts

 26 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

             HYDROGRAPH ROUTING DATA

 21 RS          STORAGE ROUTING
                      NSTPS          1  NUMBER OF SUBREACHES
                       ITYP       STOR  TYPE OF INITIAL CONDITION
                     RSVRIC        .00  INITIAL CONDITION
                          X        .00 WORKING R AND D COEFFICIENT

 22 SV            STORAGE        .0       .0       .1       .2      1.8      3.4      7.6     13.8

 23 SE          ELEVATION      77.82    78.00    79.00    80.00    81.00    82.00    83.00    84.00

 24 SL          LOW-LEVEL OUTLET
                      ELEVL      77.82  ELEVATION AT CENTER OF OUTLET
                      CAREA      15.70  CROSS-SECTIONAL AREA
                       COQL        .60  COEFFICIENT
                       EXPL        .50  EXPONENT OF HEAD

 25 SS          SPILLWAY
                       CREL      83.80  SPILLWAY CREST ELEVATION
                      SPWID      15.00  SPILLWAY WIDTH
                       COQW       3.00  WEIR COEFFICIENT
                       EXPW       1.50  EXPONENT OF HEAD

                                                  ***

                                   COMPUTED OUTFLOW-ELEVATION DATA

        OUTFLOW       .00    109.17    115.06    121.61    128.96    137.24    146.67    157.49    170.03    184.75
      ELEVATION     77.82     79.91     80.14     80.41     80.73     81.12     81.59     82.17     82.89     83.80

        OUTFLOW    186.42    186.80    187.23    187.71    188.24    188.83    189.49    190.20    190.98    191.84
      ELEVATION     83.86     83.87     83.89     83.90     83.91     83.93     83.95     83.96     83.98     84.00

                                   COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

        STORAGE       .00       .02       .11       .19       .20       .42       .85      1.37      1.79      1.98
        OUTFLOW       .00     32.05     82.07    109.17    111.55    115.06    121.61    128.96    134.72    137.24
      ELEVATION     77.82     78.00     79.00     79.91     80.00     80.14     80.41     80.73     81.00     81.12

        STORAGE      2.73      3.38      4.07      7.09      7.57     12.56     12.95     13.03     13.10     13.19
        OUTFLOW    146.67    154.46    157.49    170.03    171.95    184.75    186.42    186.80    187.23    187.71
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ELEVATION	81.59	82.00	82.17	82.89	83.00	83.80	83.86	83.87	83.89	83.90

STORAGE	13.28	13.37	13.47	13.58	13.69	13.81
OUTFLOW	188.24	188.83	189.49	190.20	190.98	191.84
ELEVATION	83.91	83.93	83.95	83.96	83.98	84.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 0. TO 109.
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

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HYDROGRAPH AT STATION Node17

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DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	77.8	*	1		0820	101	0.	.0	77.8	*	1		1640	201	0.	.0	77.8
1		0005	2	0.	.0	77.8	*	1		0825	102	0.	.0	77.8	*	1		1645	202	0.	.0	77.8
1		0010	3	0.	.0	77.8	*	1		0830	103	0.	.0	77.8	*	1		1650	203	0.	.0	77.8
1		0015	4	0.	.0	77.8	*	1		0835	104	0.	.0	77.8	*	1		1655	204	0.	.0	77.8
1		0020	5	0.	.0	77.8	*	1		0840	105	0.	.0	77.8	*	1		1700	205	0.	.0	77.8
1		0025	6	0.	.0	77.8	*	1		0845	106	0.	.0	77.8	*	1		1705	206	0.	.0	77.8
1		0030	7	0.	.0	77.8	*	1		0850	107	0.	.0	77.8	*	1		1710	207	0.	.0	77.8
1		0035	8	0.	.0	77.8	*	1		0855	108	0.	.0	77.8	*	1		1715	208	0.	.0	77.8
1		0040	9	0.	.0	77.8	*	1		0900	109	0.	.0	77.8	*	1		1720	209	0.	.0	77.8
1		0045	10	0.	.0	77.8	*	1		0905	110	0.	.0	77.8	*	1		1725	210	0.	.0	77.8
1		0050	11	0.	.0	77.8	*	1		0910	111	0.	.0	77.8	*	1		1730	211	0.	.0	77.8
1		0055	12	0.	.0	77.8	*	1		0915	112	0.	.0	77.8	*	1		1735	212	0.	.0	77.8
1		0100	13	0.	.0	77.8	*	1		0920	113	0.	.0	77.8	*	1		1740	213	0.	.0	77.8
1		0105	14	0.	.0	77.8	*	1		0925	114	0.	.0	77.8	*	1		1745	214	0.	.0	77.8
1		0110	15	0.	.0	77.8	*	1		0930	115	0.	.0	77.8	*	1		1750	215	0.	.0	77.8
1		0115	16	1.	.0	77.8	*	1		0935	116	0.	.0	77.8	*	1		1755	216	0.	.0	77.8
1		0120	17	1.	.0	77.8	*	1		0940	117	0.	.0	77.8	*	1		1800	217	0.	.0	77.8
1		0125	18	1.	.0	77.8	*	1		0945	118	0.	.0	77.8	*	1		1805	218	0.	.0	77.8
1		0130	19	1.	.0	77.8	*	1		0950	119	0.	.0	77.8	*	1		1810	219	0.	.0	77.8
1		0135	20	1.	.0	77.8	*	1		0955	120	0.	.0	77.8	*	1		1815	220	0.	.0	77.8
1		0140	21	1.	.0	77.8	*	1		1000	121	0.	.0	77.8	*	1		1820	221	0.	.0	77.8
1		0145	22	1.	.0	77.8	*	1		1005	122	0.	.0	77.8	*	1		1825	222	0.	.0	77.8
1		0150	23	1.	.0	77.8	*	1		1010	123	0.	.0	77.8	*	1		1830	223	0.	.0	77.8
1		0155	24	1.	.0	77.8	*	1		1015	124	0.	.0	77.8	*	1		1835	224	0.	.0	77.8
1		0200	25	1.	.0	77.8	*	1		1020	125	0.	.0	77.8	*	1		1840	225	0.	.0	77.8
1		0205	26	1.	.0	77.8	*	1		1025	126	0.	.0	77.8	*	1		1845	226	0.	.0	77.8
1		0210	27	1.	.0	77.8	*	1		1030	127	0.	.0	77.8	*	1		1850	227	0.	.0	77.8
1		0215	28	1.	.0	77.8	*	1		1035	128	0.	.0	77.8	*	1		1855	228	0.	.0	77.8
1		0220	29	1.	.0	77.8	*	1		1040	129	0.	.0	77.8	*	1		1900	229	0.	.0	77.8
1		0225	30	1.	.0	77.8	*	1		1045	130	0.	.0	77.8	*	1		1905	230	0.	.0	77.8
1		0230	31	1.	.0	77.8	*	1		1050	131	0.	.0	77.8	*	1		1910	231	0.	.0	77.8
1		0235	32	1.	.0	77.8	*	1		1055	132	0.	.0	77.8	*	1		1915	232	0.	.0	77.8
1		0240	33	1.	.0	77.8	*	1		1100	133	0.	.0	77.8	*	1		1920	233	0.	.0	77.8
1		0245	34	1.	.0	77.8	*	1		1105	134	0.	.0	77.8	*	1		1925	234	0.	.0	77.8
1		0250	35	1.	.0	77.8	*	1		1110	135	0.	.0	77.8	*	1		1930	235	0.	.0	77.8
1		0255	36	1.	.0	77.8	*	1		1115	136	0.	.0	77.8	*	1		1935	236	0.	.0	77.8
1		0300	37	1.	.0	77.8	*	1		1120	137	0.	.0	77.8	*	1		1940	237	0.	.0	77.8
1		0305	38	1.	.0	77.8	*	1		1125	138	0.	.0	77.8	*	1		1945	238	0.	.0	77.8
1		0310	39	1.	.0	77.8	*	1		1130	139	0.	.0	77.8	*	1		1950	239	0.	.0	77.8
1		0315	40	1.	.0	77.8	*	1		1135	140	0.	.0	77.8	*	1		1955	240	0.	.0	77.8

1	0320	41	1.	.0	77.8	*	1	1140	141	0.	.0	77.8	*	1	2000	241	0.	.0	77.8
1	0325	42	1.	.0	77.8	*	1	1145	142	0.	.0	77.8	*	1	2005	242	0.	.0	77.8
1	0330	43	1.	.0	77.8	*	1	1150	143	0.	.0	77.8	*	1	2010	243	0.	.0	77.8
1	0335	44	2.	.0	77.8	*	1	1155	144	0.	.0	77.8	*	1	2015	244	0.	.0	77.8
1	0340	45	2.	.0	77.8	*	1	1200	145	0.	.0	77.8	*	1	2020	245	0.	.0	77.8
1	0345	46	3.	.0	77.8	*	1	1205	146	0.	.0	77.8	*	1	2025	246	0.	.0	77.8
1	0350	47	3.	.0	77.8	*	1	1210	147	0.	.0	77.8	*	1	2030	247	0.	.0	77.8
1	0355	48	4.	.0	77.8	*	1	1215	148	0.	.0	77.8	*	1	2035	248	0.	.0	77.8
1	0400	49	6.	.0	77.9	*	1	1220	149	0.	.0	77.8	*	1	2040	249	0.	.0	77.8
1	0405	50	8.	.0	77.9	*	1	1225	150	0.	.0	77.8	*	1	2045	250	0.	.0	77.8
1	0410	51	11.	.0	77.9	*	1	1230	151	0.	.0	77.8	*	1	2050	251	0.	.0	77.8
1	0415	52	14.	.0	77.9	*	1	1235	152	0.	.0	77.8	*	1	2055	252	0.	.0	77.8
1	0420	53	17.	.0	77.9	*	1	1240	153	0.	.0	77.8	*	1	2100	253	0.	.0	77.8
1	0425	54	19.	.0	77.9	*	1	1245	154	0.	.0	77.8	*	1	2105	254	0.	.0	77.8
1	0430	55	19.	.0	77.9	*	1	1250	155	0.	.0	77.8	*	1	2110	255	0.	.0	77.8
1	0435	56	18.	.0	77.9	*	1	1255	156	0.	.0	77.8	*	1	2115	256	0.	.0	77.8
1	0440	57	18.	.0	77.9	*	1	1300	157	0.	.0	77.8	*	1	2120	257	0.	.0	77.8
1	0445	58	17.	.0	77.9	*	1	1305	158	0.	.0	77.8	*	1	2125	258	0.	.0	77.8
1	0450	59	16.	.0	77.9	*	1	1310	159	0.	.0	77.8	*	1	2130	259	0.	.0	77.8
1	0455	60	15.	.0	77.9	*	1	1315	160	0.	.0	77.8	*	1	2135	260	0.	.0	77.8
1	0500	61	14.	.0	77.9	*	1	1320	161	0.	.0	77.8	*	1	2140	261	0.	.0	77.8
1	0505	62	12.	.0	77.9	*	1	1325	162	0.	.0	77.8	*	1	2145	262	0.	.0	77.8
1	0510	63	11.	.0	77.9	*	1	1330	163	0.	.0	77.8	*	1	2150	263	0.	.0	77.8
1	0515	64	10.	.0	77.9	*	1	1335	164	0.	.0	77.8	*	1	2155	264	0.	.0	77.8
1	0520	65	9.	.0	77.9	*	1	1340	165	0.	.0	77.8	*	1	2200	265	0.	.0	77.8
1	0525	66	8.	.0	77.9	*	1	1345	166	0.	.0	77.8	*	1	2205	266	0.	.0	77.8
1	0530	67	7.	.0	77.9	*	1	1350	167	0.	.0	77.8	*	1	2210	267	0.	.0	77.8
1	0535	68	7.	.0	77.9	*	1	1355	168	0.	.0	77.8	*	1	2215	268	0.	.0	77.8
1	0540	69	6.	.0	77.9	*	1	1400	169	0.	.0	77.8	*	1	2220	269	0.	.0	77.8
1	0545	70	5.	.0	77.9	*	1	1405	170	0.	.0	77.8	*	1	2225	270	0.	.0	77.8
1	0550	71	5.	.0	77.8	*	1	1410	171	0.	.0	77.8	*	1	2230	271	0.	.0	77.8
1	0555	72	4.	.0	77.8	*	1	1415	172	0.	.0	77.8	*	1	2235	272	0.	.0	77.8
1	0600	73	4.	.0	77.8	*	1	1420	173	0.	.0	77.8	*	1	2240	273	0.	.0	77.8
1	0605	74	4.	.0	77.8	*	1	1425	174	0.	.0	77.8	*	1	2245	274	0.	.0	77.8
1	0610	75	3.	.0	77.8	*	1	1430	175	0.	.0	77.8	*	1	2250	275	0.	.0	77.8
1	0615	76	3.	.0	77.8	*	1	1435	176	0.	.0	77.8	*	1	2255	276	0.	.0	77.8
1	0620	77	3.	.0	77.8	*	1	1440	177	0.	.0	77.8	*	1	2300	277	0.	.0	77.8
1	0625	78	3.	.0	77.8	*	1	1445	178	0.	.0	77.8	*	1	2305	278	0.	.0	77.8
1	0630	79	2.	.0	77.8	*	1	1450	179	0.	.0	77.8	*	1	2310	279	0.	.0	77.8
1	0635	80	2.	.0	77.8	*	1	1455	180	0.	.0	77.8	*	1	2315	280	0.	.0	77.8
1	0640	81	2.	.0	77.8	*	1	1500	181	0.	.0	77.8	*	1	2320	281	0.	.0	77.8
1	0645	82	2.	.0	77.8	*	1	1505	182	0.	.0	77.8	*	1	2325	282	0.	.0	77.8
1	0650	83	1.	.0	77.8	*	1	1510	183	0.	.0	77.8	*	1	2330	283	0.	.0	77.8
1	0655	84	1.	.0	77.8	*	1	1515	184	0.	.0	77.8	*	1	2335	284	0.	.0	77.8
1	0700	85	1.	.0	77.8	*	1	1520	185	0.	.0	77.8	*	1	2340	285	0.	.0	77.8
1	0705	86	1.	.0	77.8	*	1	1525	186	0.	.0	77.8	*	1	2345	286	0.	.0	77.8
1	0710	87	1.	.0	77.8	*	1	1530	187	0.	.0	77.8	*	1	2350	287	0.	.0	77.8
1	0715	88	1.	.0	77.8	*	1	1535	188	0.	.0	77.8	*	1	2355	288	0.	.0	77.8
1	0720	89	1.	.0	77.8	*	1	1540	189	0.	.0	77.8	*	2	0000	289	0.	.0	77.8
1	0725	90	1.	.0	77.8	*	1	1545	190	0.	.0	77.8	*	2	0005	290	0.	.0	77.8
1	0730	91	1.	.0	77.8	*	1	1550	191	0.	.0	77.8	*	2	0010	291	0.	.0	77.8
1	0735	92	0.	.0	77.8	*	1	1555	192	0.	.0	77.8	*	2	0015	292	0.	.0	77.8
1	0740	93	0.	.0	77.8	*	1	1600	193	0.	.0	77.8	*	2	0020	293	0.	.0	77.8
1	0745	94	0.	.0	77.8	*	1	1605	194	0.	.0	77.8	*	2	0025	294	0.	.0	77.8
1	0750	95	0.	.0	77.8	*	1	1610	195	0.	.0	77.8	*	2	0030	295	0.	.0	77.8
1	0755	96	0.	.0	77.8	*	1	1615	196	0.	.0	77.8	*	2	0035	296	0.	.0	77.8
1	0800	97	0.	.0	77.8	*	1	1620	197	0.	.0	77.8	*	2	0040	297	0.	.0	77.8
1	0805	98	0.	.0	77.8	*	1	1625	198	0.	.0	77.8	*	2	0045	298	0.	.0	77.8

```
 1    0810  99      0.      .0    77.8 *  1    1630 199      0.      .0    77.8 *  2    0050 299      0.      .0    77.8
 1    0815 100      0.      .0    77.8 *  1    1635 200      0.      .0    77.8 *  2    0055 300      0.      .0    77.8
                                         *                                         *
*****************************************************************************************************************************

 PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                     6-HR       24-HR       72-HR     24.92-HR
  (CFS)       (HR)
                          (CFS)
     19.      4.50                    5.          1.          1.          1.
                        (INCHES)     .107        .110        .110        .110
                         (AC-FT)      2.          2.          2.          2.

 PEAK STORAGE   TIME                         MAXIMUM AVERAGE STORAGE
                                     6-HR       24-HR       72-HR     24.92-HR
  (AC-FT)      (HR)
       0.      4.42                    0.          0.          0.          0.

 PEAK STAGE    TIME                          MAXIMUM AVERAGE STAGE
                                     6-HR       24-HR       72-HR     24.92-HR
  (FEET)       (HR)
   77.93      4.50                  77.85       77.83       77.83       77.83

                        CUMULATIVE AREA =     .41 SQ MI


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


          **************
          *            *
 27 KK    *    Node10  *
          *            *
          **************
                    Route water from culverts to middle of subdivision

 33 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

              HYDROGRAPH ROUTING DATA

 29 RS          STORAGE ROUTING
                      NSTPS          1  NUMBER OF SUBREACHES
                       ITYP       STOR  TYPE OF INITIAL CONDITION
                     RSVRIC        .00  INITIAL CONDITION
                          X        .00 WORKING R AND D COEFFICIENT

 30 RC          NORMAL DEPTH CHANNEL
                        ANL       .035  LEFT OVERBANK N-VALUE
                       ANCH       .035  MAIN CHANNEL N-VALUE
                        ANR       .035  RIGHT OVERBANK N-VALUE
                      RLNTH       650.  REACH LENGTH
                        SEL      .0022  ENERGY SLOPE
                      ELMAX       15.0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION
```

CROSS-SECTION DATA

		--- LEFT OVERBANK ---		+ ------ MAIN CHANNEL		------- +	--- RIGHT OVERBANK ---		
32 RY	ELEVATION	15.00	11.00	10.00	5.85	5.85	10.00	11.00	15.00
31 RX	DISTANCE	.00	20.00	120.00	136.60	146.60	162.20	262.20	282.20

***

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	.09	.20	.34	.50	.69	.91	1.16	1.43	1.78
OUTFLOW	.00	6.32	21.74	46.35	81.01	126.67	184.32	254.90	339.36	449.06
ELEVATION	5.85	6.33	6.81	7.29	7.78	8.26	8.74	9.22	9.70	10.18
STORAGE	2.70	4.27	6.04	7.84	9.68	11.55	13.46	15.40	17.38	19.39
OUTFLOW	628.29	931.10	1390.33	1963.47	2640.18	3413.96	4280.30	5235.91	6278.27	7405.46
ELEVATION	10.67	11.15	11.63	12.11	12.59	13.07	13.56	14.04	14.52	15.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 255. TO 7405.
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

****

HYDROGRAPH AT STATION Node10

****

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	5.8	*	1		0820	101	0.	.0	5.9	*	1		1640	201	0.	.0	5.8
1		0005	2	0.	.0	5.9	*	1		0825	102	0.	.0	5.9	*	1		1645	202	0.	.0	5.8
1		0010	3	0.	.0	5.9	*	1		0830	103	0.	.0	5.9	*	1		1650	203	0.	.0	5.8
1		0015	4	0.	.0	5.9	*	1		0835	104	0.	.0	5.9	*	1		1655	204	0.	.0	5.8
1		0020	5	0.	.0	5.9	*	1		0840	105	0.	.0	5.9	*	1		1700	205	0.	.0	5.8
1		0025	6	0.	.0	5.9	*	1		0845	106	0.	.0	5.9	*	1		1705	206	0.	.0	5.8
1		0030	7	0.	.0	5.9	*	1		0850	107	0.	.0	5.9	*	1		1710	207	0.	.0	5.8
1		0035	8	0.	.0	5.9	*	1		0855	108	0.	.0	5.9	*	1		1715	208	0.	.0	5.8
1		0040	9	0.	.0	5.9	*	1		0900	109	0.	.0	5.9	*	1		1720	209	0.	.0	5.8
1		0045	10	0.	.0	5.9	*	1		0905	110	0.	.0	5.9	*	1		1725	210	0.	.0	5.8
1		0050	11	0.	.0	5.9	*	1		0910	111	0.	.0	5.9	*	1		1730	211	0.	.0	5.8
1		0055	12	0.	.0	5.9	*	1		0915	112	0.	.0	5.9	*	1		1735	212	0.	.0	5.8
1		0100	13	0.	.0	5.9	*	1		0920	113	0.	.0	5.9	*	1		1740	213	0.	.0	5.8
1		0105	14	0.	.0	5.9	*	1		0925	114	0.	.0	5.9	*	1		1745	214	0.	.0	5.8
1		0110	15	0.	.0	5.9	*	1		0930	115	0.	.0	5.9	*	1		1750	215	0.	.0	5.8
1		0115	16	0.	.0	5.9	*	1		0935	116	0.	.0	5.9	*	1		1755	216	0.	.0	5.8
1		0120	17	0.	.0	5.9	*	1		0940	117	0.	.0	5.9	*	1		1800	217	0.	.0	5.8
1		0125	18	1.	.0	5.9	*	1		0945	118	0.	.0	5.9	*	1		1805	218	0.	.0	5.8
1		0130	19	1.	.0	5.9	*	1		0950	119	0.	.0	5.9	*	1		1810	219	0.	.0	5.8
1		0135	20	1.	.0	5.9	*	1		0955	120	0.	.0	5.9	*	1		1815	220	0.	.0	5.8
1		0140	21	1.	.0	5.9	*	1		1000	121	0.	.0	5.9	*	1		1820	221	0.	.0	5.8
1		0145	22	1.	.0	5.9	*	1		1005	122	0.	.0	5.9	*	1		1825	222	0.	.0	5.8
1		0150	23	1.	.0	5.9	*	1		1010	123	0.	.0	5.9	*	1		1830	223	0.	.0	5.8
1		0155	24	1.	.0	5.9	*	1		1015	124	0.	.0	5.9	*	1		1835	224	0.	.0	5.8
1		0200	25	1.	.0	5.9	*	1		1020	125	0.	.0	5.9	*	1		1840	225	0.	.0	5.8
1		0205	26	1.	.0	5.9	*	1		1025	126	0.	.0	5.9	*	1		1845	226	0.	.0	5.8
1		0210	27	1.	.0	5.9	*	1		1030	127	0.	.0	5.9	*	1		1850	227	0.	.0	5.8

1	0215	28	1.	.0	5.9	*	1	1035	128	0.	.0	5.9	*	1	1855	228	0.	.0	5.8
1	0220	29	1.	.0	5.9	*	1	1040	129	0.	.0	5.9	*	1	1900	229	0.	.0	5.8
1	0225	30	1.	.0	5.9	*	1	1045	130	0.	.0	5.9	*	1	1905	230	0.	.0	5.8
1	0230	31	1.	.0	5.9	*	1	1050	131	0.	.0	5.9	*	1	1910	231	0.	.0	5.8
1	0235	32	1.	.0	5.9	*	1	1055	132	0.	.0	5.9	*	1	1915	232	0.	.0	5.8
1	0240	33	1.	.0	5.9	*	1	1100	133	0.	.0	5.9	*	1	1920	233	0.	.0	5.8
1	0245	34	1.	.0	5.9	*	1	1105	134	0.	.0	5.9	*	1	1925	234	0.	.0	5.8
1	0250	35	1.	.0	5.9	*	1	1110	135	0.	.0	5.8	*	1	1930	235	0.	.0	5.8
1	0255	36	1.	.0	5.9	*	1	1115	136	0.	.0	5.8	*	1	1935	236	0.	.0	5.8
1	0300	37	1.	.0	5.9	*	1	1120	137	0.	.0	5.8	*	1	1940	237	0.	.0	5.8
1	0305	38	1.	.0	5.9	*	1	1125	138	0.	.0	5.8	*	1	1945	238	0.	.0	5.8
1	0310	39	1.	.0	5.9	*	1	1130	139	0.	.0	5.8	*	1	1950	239	0.	.0	5.8
1	0315	40	1.	.0	5.9	*	1	1135	140	0.	.0	5.8	*	1	1955	240	0.	.0	5.8
1	0320	41	1.	.0	5.9	*	1	1140	141	0.	.0	5.8	*	1	2000	241	0.	.0	5.8
1	0325	42	1.	.0	5.9	*	1	1145	142	0.	.0	5.8	*	1	2005	242	0.	.0	5.8
1	0330	43	1.	.0	5.9	*	1	1150	143	0.	.0	5.8	*	1	2010	243	0.	.0	5.8
1	0335	44	1.	.0	6.0	*	1	1155	144	0.	.0	5.8	*	1	2015	244	0.	.0	5.8
1	0340	45	2.	.0	6.0	*	1	1200	145	0.	.0	5.8	*	1	2020	245	0.	.0	5.8
1	0345	46	2.	.0	6.0	*	1	1205	146	0.	.0	5.8	*	1	2025	246	0.	.0	5.8
1	0350	47	2.	.0	6.0	*	1	1210	147	0.	.0	5.8	*	1	2030	247	0.	.0	5.8
1	0355	48	3.	.0	6.1	*	1	1215	148	0.	.0	5.8	*	1	2035	248	0.	.0	5.8
1	0400	49	4.	.1	6.1	*	1	1220	149	0.	.0	5.8	*	1	2040	249	0.	.0	5.8
1	0405	50	5.	.1	6.2	*	1	1225	150	0.	.0	5.8	*	1	2045	250	0.	.0	5.8
1	0410	51	7.	.1	6.4	*	1	1230	151	0.	.0	5.8	*	1	2050	251	0.	.0	5.8
1	0415	52	10.	.1	6.5	*	1	1235	152	0.	.0	5.8	*	1	2055	252	0.	.0	5.8
1	0420	53	13.	.1	6.6	*	1	1240	153	0.	.0	5.8	*	1	2100	253	0.	.0	5.8
1	0425	54	16.	.2	6.6	*	1	1245	154	0.	.0	5.8	*	1	2105	254	0.	.0	5.8
1	0430	55	18.	.2	6.7	*	1	1250	155	0.	.0	5.8	*	1	2110	255	0.	.0	5.8
1	0435	56	18.	.2	6.7	*	1	1255	156	0.	.0	5.8	*	1	2115	256	0.	.0	5.8
1	0440	57	18.	.2	6.7	*	1	1300	157	0.	.0	5.8	*	1	2120	257	0.	.0	5.8
1	0445	58	18.	.2	6.7	*	1	1305	158	0.	.0	5.8	*	1	2125	258	0.	.0	5.8
1	0450	59	17.	.2	6.7	*	1	1310	159	0.	.0	5.8	*	1	2130	259	0.	.0	5.8
1	0455	60	16.	.2	6.6	*	1	1315	160	0.	.0	5.8	*	1	2135	260	0.	.0	5.8
1	0500	61	15.	.1	6.6	*	1	1320	161	0.	.0	5.8	*	1	2140	261	0.	.0	5.8
1	0505	62	14.	.1	6.6	*	1	1325	162	0.	.0	5.8	*	1	2145	262	0.	.0	5.8
1	0510	63	12.	.1	6.5	*	1	1330	163	0.	.0	5.8	*	1	2150	263	0.	.0	5.8
1	0515	64	11.	.1	6.5	*	1	1335	164	0.	.0	5.8	*	1	2155	264	0.	.0	5.8
1	0520	65	10.	.1	6.5	*	1	1340	165	0.	.0	5.8	*	1	2200	265	0.	.0	5.8
1	0525	66	9.	.1	6.4	*	1	1345	166	0.	.0	5.8	*	1	2205	266	0.	.0	5.8
1	0530	67	8.	.1	6.4	*	1	1350	167	0.	.0	5.8	*	1	2210	267	0.	.0	5.8
1	0535	68	7.	.1	6.4	*	1	1355	168	0.	.0	5.8	*	1	2215	268	0.	.0	5.8
1	0540	69	7.	.1	6.3	*	1	1400	169	0.	.0	5.8	*	1	2220	269	0.	.0	5.8
1	0545	70	6.	.1	6.3	*	1	1405	170	0.	.0	5.8	*	1	2225	270	0.	.0	5.8
1	0550	71	6.	.1	6.3	*	1	1410	171	0.	.0	5.8	*	1	2230	271	0.	.0	5.8
1	0555	72	5.	.1	6.3	*	1	1415	172	0.	.0	5.8	*	1	2235	272	0.	.0	5.8
1	0600	73	5.	.1	6.2	*	1	1420	173	0.	.0	5.8	*	1	2240	273	0.	.0	5.8
1	0605	74	4.	.1	6.2	*	1	1425	174	0.	.0	5.8	*	1	2245	274	0.	.0	5.8
1	0610	75	4.	.1	6.2	*	1	1430	175	0.	.0	5.8	*	1	2250	275	0.	.0	5.8
1	0615	76	4.	.1	6.1	*	1	1435	176	0.	.0	5.8	*	1	2255	276	0.	.0	5.8
1	0620	77	3.	.0	6.1	*	1	1440	177	0.	.0	5.8	*	1	2300	277	0.	.0	5.8
1	0625	78	3.	.0	6.1	*	1	1445	178	0.	.0	5.8	*	1	2305	278	0.	.0	5.8
1	0630	79	3.	.0	6.1	*	1	1450	179	0.	.0	5.8	*	1	2310	279	0.	.0	5.8
1	0635	80	3.	.0	6.0	*	1	1455	180	0.	.0	5.8	*	1	2315	280	0.	.0	5.8
1	0640	81	2.	.0	6.0	*	1	1500	181	0.	.0	5.8	*	1	2320	281	0.	.0	5.8
1	0645	82	2.	.0	6.0	*	1	1505	182	0.	.0	5.8	*	1	2325	282	0.	.0	5.8
1	0650	83	2.	.0	6.0	*	1	1510	183	0.	.0	5.8	*	1	2330	283	0.	.0	5.8
1	0655	84	2.	.0	6.0	*	1	1515	184	0.	.0	5.8	*	1	2335	284	0.	.0	5.8
1	0700	85	1.	.0	6.0	*	1	1520	185	0.	.0	5.8	*	1	2340	285	0.	.0	5.8

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1    0705  86    1.    .0    5.9 * 1    1525 186    0.    .0    5.8 * 1    2345 286    0.    .0    5.8
1    0710  87    1.    .0    5.9 * 1    1530 187    0.    .0    5.8 * 1    2350 287    0.    .0    5.8
1    0715  88    1.    .0    5.9 * 1    1535 188    0.    .0    5.8 * 1    2355 288    0.    .0    5.8
1    0720  89    1.    .0    5.9 * 1    1540 189    0.    .0    5.8 * 2    0000 289    0.    .0    5.8
1    0725  90    1.    .0    5.9 * 1    1545 190    0.    .0    5.8 * 2    0005 290    0.    .0    5.8
1    0730  91    1.    .0    5.9 * 1    1550 191    0.    .0    5.8 * 2    0010 291    0.    .0    5.8
1    0735  92    1.    .0    5.9 * 1    1555 192    0.    .0    5.8 * 2    0015 292    0.    .0    5.8
1    0740  93    1.    .0    5.9 * 1    1600 193    0.    .0    5.8 * 2    0020 293    0.    .0    5.8
1    0745  94    0.    .0    5.9 * 1    1605 194    0.    .0    5.8 * 2    0025 294    0.    .0    5.8
1    0750  95    0.    .0    5.9 * 1    1610 195    0.    .0    5.8 * 2    0030 295    0.    .0    5.8
1    0755  96    0.    .0    5.9 * 1    1615 196    0.    .0    5.8 * 2    0035 296    0.    .0    5.8
1    0800  97    0.    .0    5.9 * 1    1620 197    0.    .0    5.8 * 2    0040 297    0.    .0    5.8
1    0805  98    0.    .0    5.9 * 1    1625 198    0.    .0    5.8 * 2    0045 298    0.    .0    5.8
1    0810  99    0.    .0    5.9 * 1    1630 199    0.    .0    5.8 * 2    0050 299    0.    .0    5.8
1    0815 100    0.    .0    5.9 * 1    1635 200    0.    .0    5.8 * 2    0055 300    0.    .0    5.8
                                   *                                   *
*****************************************************************************************************************

 PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                   6-HR       24-HR       72-HR     24.92-HR
  (CFS)       (HR)
                          (CFS)
    18.       4.58                 5.          1.          1.          1.
                        (INCHES)  .107        .110        .110        .110
                         (AC-FT)   2.          2.          2.          2.

PEAK STORAGE   TIME                          MAXIMUM AVERAGE STORAGE
                                   6-HR       24-HR       72-HR     24.92-HR
 (AC-FT)      (HR)
      0.       4.58                 0.          0.          0.          0.

 PEAK STAGE    TIME                          MAXIMUM AVERAGE STAGE
                                   6-HR       24-HR       72-HR     24.92-HR
  (FEET)      (HR)
    6.71       4.58                6.14        5.92        5.92        5.92

                        CUMULATIVE AREA =     .41 SQ MI


** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** **


          **************
          *            *
 34 KK    *   DEVELO   *     PE RAINFALL FOR SUBBASIN G2
          *            *
          **************
                         6-HOUR RAINFALL PATTERN NO. 1.23 WAS USED TO FIND TC & R FOR THIS BASIN
                         THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .990
                        L =  .41  Kb = .064  Adj. Slope =   48.9

 44 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE
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SUBBASIN RUNOFF DATA

38 BA SUBBASIN CHARACTERISTICS

TAREA	.04	SUBBASIN AREA

PRECIPITATION DATA

39 PB

STORM	1.19	BASIN TOTAL PRECIPITATION

11 PI INCREMENTAL PRECIPITATION PATTERN

.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.01	.01	.01	.01	.01	.01	.03
.03	.03	.06	.06	.06	.14	.14	.14	.03	.03
.03	.01	.01	.01	.01	.01	.01	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00								

40 LG GREEN AND AMPT LOSS RATE

STRTL	.43	STARTING LOSS
DTH	.25	MOISTURE DEFICIT
PSIF	3.50	WETTING FRONT SUCTION
XKSAT	.51	HYDRAULIC CONDUCTIVITY
RTIMP	30.00	PERCENT IMPERVIOUS AREA

41 UC CLARK UNITGRAPH

TC	.80	TIME OF CONCENTRATION
R	.88	STORAGE COEFFICIENT

42 UA ACCUMULATED-AREA VS. TIME, 11 ORDINATES

.0	5.0	16.0	30.0	65.0	77.0	84.0	90.0	94.0	97.0
100.0									

***

UNIT HYDROGRAPH PARAMETERS

CLARK TC= .80 HR, R= .88 HR

SNYDER TP= .51 HR, CP= .38

UNIT HYDROGRAPH

60 END-OF-PERIOD ORDINATES

1.	3.	7.	13.	18.	19.	19.	19.	18.	17.
16.	14.	13.	12.	11.	10.	9.	8.	7.	7.
6.	6.	5.	5.	4.	4.	3.	3.	3.	3.
2.	2.	2.	2.	2.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

****

HYDROGRAPH AT STATION DEVELO

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1		0000	1	.00	.00	.00	0.	*	1		1230	151	.00	.00	.00	0.

1	0005	2	.00	.00	.00	0.	*	1	1235	152	.00	.00	.00	0.
1	0010	3	.00	.00	.00	0.	*	1	1240	153	.00	.00	.00	0.
1	0015	4	.00	.00	.00	0.	*	1	1245	154	.00	.00	.00	0.
1	0020	5	.00	.00	.00	0.	*	1	1250	155	.00	.00	.00	0.
1	0025	6	.00	.00	.00	0.	*	1	1255	156	.00	.00	.00	0.
1	0030	7	.00	.00	.00	0.	*	1	1300	157	.00	.00	.00	0.
1	0035	8	.00	.00	.00	0.	*	1	1305	158	.00	.00	.00	0.
1	0040	9	.00	.00	.00	0.	*	1	1310	159	.00	.00	.00	0.
1	0045	10	.00	.00	.00	0.	*	1	1315	160	.00	.00	.00	0.
1	0050	11	.00	.00	.00	0.	*	1	1320	161	.00	.00	.00	0.
1	0055	12	.00	.00	.00	0.	*	1	1325	162	.00	.00	.00	0.
1	0100	13	.00	.00	.00	0.	*	1	1330	163	.00	.00	.00	0.
1	0105	14	.00	.00	.00	0.	*	1	1335	164	.00	.00	.00	0.
1	0110	15	.00	.00	.00	0.	*	1	1340	165	.00	.00	.00	0.
1	0115	16	.00	.00	.00	0.	*	1	1345	166	.00	.00	.00	0.
1	0120	17	.00	.00	.00	0.	*	1	1350	167	.00	.00	.00	0.
1	0125	18	.00	.00	.00	0.	*	1	1355	168	.00	.00	.00	0.
1	0130	19	.00	.00	.00	0.	*	1	1400	169	.00	.00	.00	0.
1	0135	20	.00	.00	.00	0.	*	1	1405	170	.00	.00	.00	0.
1	0140	21	.00	.00	.00	0.	*	1	1410	171	.00	.00	.00	0.
1	0145	22	.00	.00	.00	0.	*	1	1415	172	.00	.00	.00	0.
1	0150	23	.00	.00	.00	0.	*	1	1420	173	.00	.00	.00	0.
1	0155	24	.00	.00	.00	0.	*	1	1425	174	.00	.00	.00	0.
1	0200	25	.00	.00	.00	0.	*	1	1430	175	.00	.00	.00	0.
1	0205	26	.00	.00	.00	0.	*	1	1435	176	.00	.00	.00	0.
1	0210	27	.00	.00	.00	0.	*	1	1440	177	.00	.00	.00	0.
1	0215	28	.00	.00	.00	0.	*	1	1445	178	.00	.00	.00	0.
1	0220	29	.01	.00	.00	0.	*	1	1450	179	.00	.00	.00	0.
1	0225	30	.01	.00	.00	0.	*	1	1455	180	.00	.00	.00	0.
1	0230	31	.01	.00	.00	0.	*	1	1500	181	.00	.00	.00	0.
1	0235	32	.00	.00	.00	0.	*	1	1505	182	.00	.00	.00	0.
1	0240	33	.00	.00	.00	0.	*	1	1510	183	.00	.00	.00	0.
1	0245	34	.00	.00	.00	0.	*	1	1515	184	.00	.00	.00	0.
1	0250	35	.01	.01	.00	0.	*	1	1520	185	.00	.00	.00	0.
1	0255	36	.01	.01	.00	0.	*	1	1525	186	.00	.00	.00	0.
1	0300	37	.01	.01	.00	0.	*	1	1530	187	.00	.00	.00	0.
1	0305	38	.01	.01	.00	0.	*	1	1535	188	.00	.00	.00	0.
1	0310	39	.01	.01	.00	0.	*	1	1540	189	.00	.00	.00	0.
1	0315	40	.01	.01	.00	0.	*	1	1545	190	.00	.00	.00	0.
1	0320	41	.03	.02	.01	0.	*	1	1550	191	.00	.00	.00	0.
1	0325	42	.03	.02	.01	1.	*	1	1555	192	.00	.00	.00	0.
1	0330	43	.03	.02	.01	1.	*	1	1600	193	.00	.00	.00	0.
1	0335	44	.07	.05	.02	1.	*	1	1605	194	.00	.00	.00	0.
1	0340	45	.07	.05	.02	1.	*	1	1610	195	.00	.00	.00	0.
1	0345	46	.07	.05	.02	1.	*	1	1615	196	.00	.00	.00	0.
1	0350	47	.16	.11	.05	1.	*	1	1620	197	.00	.00	.00	0.
1	0355	48	.16	.11	.05	2.	*	1	1625	198	.00	.00	.00	0.
1	0400	49	.16	.09	.07	2.	*	1	1630	199	.00	.00	.00	0.
1	0405	50	.04	.03	.01	3.	*	1	1635	200	.00	.00	.00	0.
1	0410	51	.04	.03	.01	4.	*	1	1640	201	.00	.00	.00	0.
1	0415	52	.04	.03	.01	5.	*	1	1645	202	.00	.00	.00	0.
1	0420	53	.01	.01	.00	5.	*	1	1650	203	.00	.00	.00	0.
1	0425	54	.01	.01	.00	5.	*	1	1655	204	.00	.00	.00	0.
1	0430	55	.01	.01	.00	5.	*	1	1700	205	.00	.00	.00	0.
1	0435	56	.01	.01	.00	5.	*	1	1705	206	.00	.00	.00	0.
1	0440	57	.01	.01	.00	5.	*	1	1710	207	.00	.00	.00	0.
1	0445	58	.01	.01	.00	5.	*	1	1715	208	.00	.00	.00	0.
1	0450	59	.00	.00	.00	4.	*	1	1720	209	.00	.00	.00	0.

1	0455	60	.00	.00	.00	4.	*	1	1725	210	.00	.00	.00	0.
1	0500	61	.00	.00	.00	4.	*	1	1730	211	.00	.00	.00	0.
1	0505	62	.00	.00	.00	3.	*	1	1735	212	.00	.00	.00	0.
1	0510	63	.00	.00	.00	3.	*	1	1740	213	.00	.00	.00	0.
1	0515	64	.00	.00	.00	3.	*	1	1745	214	.00	.00	.00	0.
1	0520	65	.00	.00	.00	3.	*	1	1750	215	.00	.00	.00	0.
1	0525	66	.00	.00	.00	3.	*	1	1755	216	.00	.00	.00	0.
1	0530	67	.00	.00	.00	2.	*	1	1800	217	.00	.00	.00	0.
1	0535	68	.00	.00	.00	2.	*	1	1805	218	.00	.00	.00	0.
1	0540	69	.00	.00	.00	2.	*	1	1810	219	.00	.00	.00	0.
1	0545	70	.00	.00	.00	2.	*	1	1815	220	.00	.00	.00	0.
1	0550	71	.00	.00	.00	2.	*	1	1820	221	.00	.00	.00	0.
1	0555	72	.00	.00	.00	2.	*	1	1825	222	.00	.00	.00	0.
1	0600	73	.00	.00	.00	1.	*	1	1830	223	.00	.00	.00	0.
1	0605	74	.00	.00	.00	1.	*	1	1835	224	.00	.00	.00	0.
1	0610	75	.00	.00	.00	1.	*	1	1840	225	.00	.00	.00	0.
1	0615	76	.00	.00	.00	1.	*	1	1845	226	.00	.00	.00	0.
1	0620	77	.00	.00	.00	1.	*	1	1850	227	.00	.00	.00	0.
1	0625	78	.00	.00	.00	1.	*	1	1855	228	.00	.00	.00	0.
1	0630	79	.00	.00	.00	1.	*	1	1900	229	.00	.00	.00	0.
1	0635	80	.00	.00	.00	1.	*	1	1905	230	.00	.00	.00	0.
1	0640	81	.00	.00	.00	1.	*	1	1910	231	.00	.00	.00	0.
1	0645	82	.00	.00	.00	1.	*	1	1915	232	.00	.00	.00	0.
1	0650	83	.00	.00	.00	1.	*	1	1920	233	.00	.00	.00	0.
1	0655	84	.00	.00	.00	1.	*	1	1925	234	.00	.00	.00	0.
1	0700	85	.00	.00	.00	1.	*	1	1930	235	.00	.00	.00	0.
1	0705	86	.00	.00	.00	0.	*	1	1935	236	.00	.00	.00	0.
1	0710	87	.00	.00	.00	0.	*	1	1940	237	.00	.00	.00	0.
1	0715	88	.00	.00	.00	0.	*	1	1945	238	.00	.00	.00	0.
1	0720	89	.00	.00	.00	0.	*	1	1950	239	.00	.00	.00	0.
1	0725	90	.00	.00	.00	0.	*	1	1955	240	.00	.00	.00	0.
1	0730	91	.00	.00	.00	0.	*	1	2000	241	.00	.00	.00	0.
1	0735	92	.00	.00	.00	0.	*	1	2005	242	.00	.00	.00	0.
1	0740	93	.00	.00	.00	0.	*	1	2010	243	.00	.00	.00	0.
1	0745	94	.00	.00	.00	0.	*	1	2015	244	.00	.00	.00	0.
1	0750	95	.00	.00	.00	0.	*	1	2020	245	.00	.00	.00	0.
1	0755	96	.00	.00	.00	0.	*	1	2025	246	.00	.00	.00	0.
1	0800	97	.00	.00	.00	0.	*	1	2030	247	.00	.00	.00	0.
1	0805	98	.00	.00	.00	0.	*	1	2035	248	.00	.00	.00	0.
1	0810	99	.00	.00	.00	0.	*	1	2040	249	.00	.00	.00	0.
1	0815	100	.00	.00	.00	0.	*	1	2045	250	.00	.00	.00	0.
1	0820	101	.00	.00	.00	0.	*	1	2050	251	.00	.00	.00	0.
1	0825	102	.00	.00	.00	0.	*	1	2055	252	.00	.00	.00	0.
1	0830	103	.00	.00	.00	0.	*	1	2100	253	.00	.00	.00	0.
1	0835	104	.00	.00	.00	0.	*	1	2105	254	.00	.00	.00	0.
1	0840	105	.00	.00	.00	0.	*	1	2110	255	.00	.00	.00	0.
1	0845	106	.00	.00	.00	0.	*	1	2115	256	.00	.00	.00	0.
1	0850	107	.00	.00	.00	0.	*	1	2120	257	.00	.00	.00	0.
1	0855	108	.00	.00	.00	0.	*	1	2125	258	.00	.00	.00	0.
1	0900	109	.00	.00	.00	0.	*	1	2130	259	.00	.00	.00	0.
1	0905	110	.00	.00	.00	0.	*	1	2135	260	.00	.00	.00	0.
1	0910	111	.00	.00	.00	0.	*	1	2140	261	.00	.00	.00	0.
1	0915	112	.00	.00	.00	0.	*	1	2145	262	.00	.00	.00	0.
1	0920	113	.00	.00	.00	0.	*	1	2150	263	.00	.00	.00	0.
1	0925	114	.00	.00	.00	0.	*	1	2155	264	.00	.00	.00	0.
1	0930	115	.00	.00	.00	0.	*	1	2200	265	.00	.00	.00	0.
1	0935	116	.00	.00	.00	0.	*	1	2205	266	.00	.00	.00	0.
1	0940	117	.00	.00	.00	0.	*	1	2210	267	.00	.00	.00	0.

1	0945	118	.00	.00	.00	0.	*	1	2215	268	.00	.00	.00	0.
1	0950	119	.00	.00	.00	0.	*	1	2220	269	.00	.00	.00	0.
1	0955	120	.00	.00	.00	0.	*	1	2225	270	.00	.00	.00	0.
1	1000	121	.00	.00	.00	0.	*	1	2230	271	.00	.00	.00	0.
1	1005	122	.00	.00	.00	0.	*	1	2235	272	.00	.00	.00	0.
1	1010	123	.00	.00	.00	0.	*	1	2240	273	.00	.00	.00	0.
1	1015	124	.00	.00	.00	0.	*	1	2245	274	.00	.00	.00	0.
1	1020	125	.00	.00	.00	0.	*	1	2250	275	.00	.00	.00	0.
1	1025	126	.00	.00	.00	0.	*	1	2255	276	.00	.00	.00	0.
1	1030	127	.00	.00	.00	0.	*	1	2300	277	.00	.00	.00	0.
1	1035	128	.00	.00	.00	0.	*	1	2305	278	.00	.00	.00	0.
1	1040	129	.00	.00	.00	0.	*	1	2310	279	.00	.00	.00	0.
1	1045	130	.00	.00	.00	0.	*	1	2315	280	.00	.00	.00	0.
1	1050	131	.00	.00	.00	0.	*	1	2320	281	.00	.00	.00	0.
1	1055	132	.00	.00	.00	0.	*	1	2325	282	.00	.00	.00	0.
1	1100	133	.00	.00	.00	0.	*	1	2330	283	.00	.00	.00	0.
1	1105	134	.00	.00	.00	0.	*	1	2335	284	.00	.00	.00	0.
1	1110	135	.00	.00	.00	0.	*	1	2340	285	.00	.00	.00	0.
1	1115	136	.00	.00	.00	0.	*	1	2345	286	.00	.00	.00	0.
1	1120	137	.00	.00	.00	0.	*	1	2350	287	.00	.00	.00	0.
1	1125	138	.00	.00	.00	0.	*	1	2355	288	.00	.00	.00	0.
1	1130	139	.00	.00	.00	0.	*	2	0000	289	.00	.00	.00	0.
1	1135	140	.00	.00	.00	0.	*	2	0005	290	.00	.00	.00	0.
1	1140	141	.00	.00	.00	0.	*	2	0010	291	.00	.00	.00	0.
1	1145	142	.00	.00	.00	0.	*	2	0015	292	.00	.00	.00	0.
1	1150	143	.00	.00	.00	0.	*	2	0020	293	.00	.00	.00	0.
1	1155	144	.00	.00	.00	0.	*	2	0025	294	.00	.00	.00	0.
1	1200	145	.00	.00	.00	0.	*	2	0030	295	.00	.00	.00	0.
1	1205	146	.00	.00	.00	0.	*	2	0035	296	.00	.00	.00	0.
1	1210	147	.00	.00	.00	0.	*	2	0040	297	.00	.00	.00	0.
1	1215	148	.00	.00	.00	0.	*	2	0045	298	.00	.00	.00	0.
1	1220	149	.00	.00	.00	0.	*	2	0050	299	.00	.00	.00	0.
1	1225	150	.00	.00	.00	0.	*	2	0055	300	.00	.00	.00	0.
							*							

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TOTAL RAINFALL = 1.19, TOTAL LOSS = .81, TOTAL EXCESS = .38

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
5.	4.42		2.	0.	0.	0.
		(INCHES)	.361	.375	.375	.375
		(AC-FT)	1.	1.	1.	1.

CUMULATIVE AREA = .04 SQ MI

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          **************
          *            *
45 KK     *   Node7    *
          *            *
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                    Route flow through basin to remove developed area storage

52 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          2  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL         0.  HYDROGRAPH PLOT SCALE

             HYDROGRAPH ROUTING DATA

47 RS          STORAGE ROUTING
                     NSTPS          1  NUMBER OF SUBREACHES
                      ITYP       STOR  TYPE OF INITIAL CONDITION
                    RSVRIC        .00  INITIAL CONDITION
                         X        .00 WORKING R AND D COEFFICIENT

48 SV            STORAGE        .0      2.1      2.2      2.2      2.2      2.2      2.2      2.2      2.3      2.5
                               2.8

50 SQ          DISCHARGE        0.       0.      20.      30.      40.      50.      60.      70.     100.     150.
                              200.                                  .
                                                                   ***

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN        0. TO      100.
                THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
                THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

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HYDROGRAPH AT STATION Node7

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE
1		0000	1	0.	.00	1		0820	101	0.	.80	1		1640	201	0.	.80
1		0005	2	0.	.00	1		0825	102	0.	.80	1		1645	202	0.	.80
1		0010	3	0.	.00	1		0830	103	0.	.80	1		1650	203	0.	.80
1		0015	4	0.	.00	1		0835	104	0.	.80	1		1655	204	0.	.80
1		0020	5	0.	.00	1		0840	105	0.	.80	1		1700	205	0.	.80
1		0025	6	0.	.00	1		0845	106	0.	.80	1		1705	206	0.	.80
1		0030	7	0.	.00	1		0850	107	0.	.80	1		1710	207	0.	.80
1		0035	8	0.	.00	1		0855	108	0.	.80	1		1715	208	0.	.80
1		0040	9	0.	.00	1		0900	109	0.	.80	1		1720	209	0.	.80
1		0045	10	0.	.00	1		0905	110	0.	.80	1		1725	210	0.	.80
1		0050	11	0.	.00	1		0910	111	0.	.80	1		1730	211	0.	.80
1		0055	12	0.	.00	1		0915	112	0.	.80	1		1735	212	0.	.80
1		0100	13	0.	.01	1		0920	113	0.	.80	1		1740	213	0.	.80
1		0105	14	0.	.01	1		0925	114	0.	.80	1		1745	214	0.	.80
1		0110	15	0.	.01	1		0930	115	0.	.80	1		1750	215	0.	.80
1		0115	16	0.	.01	1		0935	116	0.	.80	1		1755	216	0.	.80
1		0120	17	0.	.01	1		0940	117	0.	.80	1		1800	217	0.	.80
1		0125	18	0.	.01	1		0945	118	0.	.80	1		1805	218	0.	.80
1		0130	19	0.	.01	1		0950	119	0.	.80	1		1810	219	0.	.80
1		0135	20	0.	.02	1		0955	120	0.	.80	1		1815	220	0.	.80
1		0140	21	0.	.02	1		1000	121	0.	.80	1		1820	221	0.	.80
1		0145	22	0.	.02	1		1005	122	0.	.80	1		1825	222	0.	.80

1	0150	23	0.	.02	*	1	1010	123	0.	.80	*	1	1830	223	0.	.80
1	0155	24	0.	.02	*	1	1015	124	0.	.80	*	1	1835	224	0.	.80
1	0200	25	0.	.02	*	1	1020	125	0.	.80	*	1	1840	225	0.	.80
1	0205	26	0.	.03	*	1	1025	126	0.	.80	*	1	1845	226	0.	.80
1	0210	27	0.	.03	*	1	1030	127	0.	.80	*	1	1850	227	0.	.80
1	0215	28	0.	.03	*	1	1035	128	0.	.80	*	1	1855	228	0.	.80
1	0220	29	0.	.03	*	1	1040	129	0.	.80	*	1	1900	229	0.	.80
1	0225	30	0.	.03	*	1	1045	130	0.	.80	*	1	1905	230	0.	.80
1	0230	31	0.	.03	*	1	1050	131	0.	.80	*	1	1910	231	0.	.80
1	0235	32	0.	.04	*	1	1055	132	0.	.80	*	1	1915	232	0.	.80
1	0240	33	0.	.04	*	1	1100	133	0.	.80	*	1	1920	233	0.	.80
1	0245	34	0.	.04	*	1	1105	134	0.	.80	*	1	1925	234	0.	.80
1	0250	35	0.	.04	*	1	1110	135	0.	.80	*	1	1930	235	0.	.80
1	0255	36	0.	.05	*	1	1115	136	0.	.80	*	1	1935	236	0.	.80
1	0300	37	0.	.05	*	1	1120	137	0.	.80	*	1	1940	237	0.	.80
1	0305	38	0.	.05	*	1	1125	138	0.	.80	*	1	1945	238	0.	.80
1	0310	39	0.	.05	*	1	1130	139	0.	.80	*	1	1950	239	0.	.80
1	0315	40	0.	.06	*	1	1135	140	0.	.80	*	1	1955	240	0.	.80
1	0320	41	0.	.06	*	1	1140	141	0.	.80	*	1	2000	241	0.	.80
1	0325	42	0.	.06	*	1	1145	142	0.	.80	*	1	2005	242	0.	.80
1	0330	43	0.	.07	*	1	1150	143	0.	.80	*	1	2010	243	0.	.80
1	0335	44	0.	.07	*	1	1155	144	0.	.80	*	1	2015	244	0.	.80
1	0340	45	0.	.08	*	1	1200	145	0.	.80	*	1	2020	245	0.	.80
1	0345	46	0.	.08	*	1	1205	146	0.	.80	*	1	2025	246	0.	.80
1	0350	47	0.	.09	*	1	1210	147	0.	.80	*	1	2030	247	0.	.80
1	0355	48	0.	.10	*	1	1215	148	0.	.80	*	1	2035	248	0.	.80
1	0400	49	0.	.12	*	1	1220	149	0.	.80	*	1	2040	249	0.	.80
1	0405	50	0.	.14	*	1	1225	150	0.	.80	*	1	2045	250	0.	.80
1	0410	51	0.	.16	*	1	1230	151	0.	.80	*	1	2050	251	0.	.80
1	0415	52	0.	.19	*	1	1235	152	0.	.80	*	1	2055	252	0.	.80
1	0420	53	0.	.23	*	1	1240	153	0.	.80	*	1	2100	253	0.	.80
1	0425	54	0.	.26	*	1	1245	154	0.	.80	*	1	2105	254	0.	.80
1	0430	55	0.	.30	*	1	1250	155	0.	.80	*	1	2110	255	0.	.80
1	0435	56	0.	.33	*	1	1255	156	0.	.80	*	1	2115	256	0.	.80
1	0440	57	0.	.37	*	1	1300	157	0.	.80	*	1	2120	257	0.	.80
1	0445	58	0.	.40	*	1	1305	158	0.	.80	*	1	2125	258	0.	.80
1	0450	59	0.	.43	*	1	1310	159	0.	.80	*	1	2130	259	0.	.80
1	0455	60	0.	.46	*	1	1315	160	0.	.80	*	1	2135	260	0.	.80
1	0500	61	0.	.49	*	1	1320	161	0.	.80	*	1	2140	261	0.	.80
1	0505	62	0.	.51	*	1	1325	162	0.	.80	*	1	2145	262	0.	.80
1	0510	63	0.	.53	*	1	1330	163	0.	.80	*	1	2150	263	0.	.80
1	0515	64	0.	.56	*	1	1335	164	0.	.80	*	1	2155	264	0.	.80
1	0520	65	0.	.57	*	1	1340	165	0.	.80	*	1	2200	265	0.	.80
1	0525	66	0.	.59	*	1	1345	166	0.	.80	*	1	2205	266	0.	.80
1	0530	67	0.	.61	*	1	1350	167	0.	.80	*	1	2210	267	0.	.80
1	0535	68	0.	.62	*	1	1355	168	0.	.80	*	1	2215	268	0.	.80
1	0540	69	0.	.64	*	1	1400	169	0.	.80	*	1	2220	269	0.	.80
1	0545	70	0.	.65	*	1	1405	170	0.	.80	*	1	2225	270	0.	.80
1	0550	71	0.	.66	*	1	1410	171	0.	.80	*	1	2230	271	0.	.80
1	0555	72	0.	.68	*	1	1415	172	0.	.80	*	1	2235	272	0.	.80
1	0600	73	0.	.69	*	1	1420	173	0.	.80	*	1	2240	273	0.	.80
1	0605	74	0.	.70	*	1	1425	174	0.	.80	*	1	2245	274	0.	.80
1	0610	75	0.	.71	*	1	1430	175	0.	.80	*	1	2250	275	0.	.80
1	0615	76	0.	.71	*	1	1435	176	0.	.80	*	1	2255	276	0.	.80
1	0620	77	0.	.72	*	1	1440	177	0.	.80	*	1	2300	277	0.	.80
1	0625	78	0.	.73	*	1	1445	178	0.	.80	*	1	2305	278	0.	.80
1	0630	79	0.	.74	*	1	1450	179	0.	.80	*	1	2310	279	0.	.80
1	0635	80	0.	.74	*	1	1455	180	0.	.80	*	1	2315	280	0.	.80

1	0640	81	0.	.75	*	1	1500	181	0.	.80	*	1	2320	281	0.	.80
1	0645	82	0.	.75	*	1	1505	182	0.	.80	*	1	2325	282	0.	.80
1	0650	83	0.	.76	*	1	1510	183	0.	.80	*	1	2330	283	0.	.80
1	0655	84	0.	.76	*	1	1515	184	0.	.80	*	1	2335	284	0.	.80
1	0700	85	0.	.77	*	1	1520	185	0.	.80	*	1	2340	285	0.	.80
1	0705	86	0.	.77	*	1	1525	186	0.	.80	*	1	2345	286	0.	.80
1	0710	87	0.	.77	*	1	1530	187	0.	.80	*	1	2350	287	0.	.80
1	0715	88	0.	.78	*	1	1535	188	0.	.80	*	1	2355	288	0.	.80
1	0720	89	0.	.78	*	1	1540	189	0.	.80	*	2	0000	289	0.	.80
1	0725	90	0.	.78	*	1	1545	190	0.	.80	*	2	0005	290	0.	.80
1	0730	91	0.	.78	*	1	1550	191	0.	.80	*	2	0010	291	0.	.80
1	0735	92	0.	.78	*	1	1555	192	0.	.80	*	2	0015	292	0.	.80
1	0740	93	0.	.79	*	1	1600	193	0.	.80	*	2	0020	293	0.	.80
1	0745	94	0.	.79	*	1	1605	194	0.	.80	*	2	0025	294	0.	.80
1	0750	95	0.	.79	*	1	1610	195	0.	.80	*	2	0030	295	0.	.80
1	0755	96	0.	.79	*	1	1615	196	0.	.80	*	2	0035	296	0.	.80
1	0800	97	0.	.79	*	1	1620	197	0.	.80	*	2	0040	297	0.	.80
1	0805	98	0.	.79	*	1	1625	198	0.	.80	*	2	0045	298	0.	.80
1	0810	99	0.	.79	*	1	1630	199	0.	.80	*	2	0050	299	0.	.80
1	0815	100	0.	.79	*	1	1635	200	0.	.80	*	2	0055	300	0.	.80
					*						*					

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)					
		(CFS)				
0.	.08		0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
(AC-FT)	(HR)				
1.	9.42	1.	1.	1.	1.

CUMULATIVE AREA = .04 SQ MI

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          *            *
 53 KK    *   Node11   *
          *            *
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conflunce g1 and g2

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 56 KO        OUTPUT CONTROL VARIABLES
                    IPRNT          2  PRINT CONTROL
                    IPLOT          0  PLOT CONTROL
                    QSCAL         0.  HYDROGRAPH PLOT SCALE

 55 HC        HYDROGRAPH COMBINATION
                    ICOMP          2  NUMBER OF HYDROGRAPHS TO COMBINE
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HYDROGRAPH AT STATION Node11
SUM OF 2 HYDROGRAPHS

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	4.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	3.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	3.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	3.	1		1245	154	0.	1		1900	229	0.
1		0020	5	0.	1		0635	80	3.	1		1250	155	0.	1		1905	230	0.
1		0025	6	0.	1		0640	81	2.	1		1255	156	0.	1		1910	231	0.
1		0030	7	0.	1		0645	82	2.	1		1300	157	0.	1		1915	232	0.
1		0035	8	0.	1		0650	83	2.	1		1305	158	0.	1		1920	233	0.
1		0040	9	0.	1		0655	84	2.	1		1310	159	0.	1		1925	234	0.
1		0045	10	0.	1		0700	85	1.	1		1315	160	0.	1		1930	235	0.
1		0050	11	0.	1		0705	86	1.	1		1320	161	0.	1		1935	236	0.
1		0055	12	0.	1		0710	87	1.	1		1325	162	0.	1		1940	237	0.
1		0100	13	0.	1		0715	88	1.	1		1330	163	0.	1		1945	238	0.
1		0105	14	0.	1		0720	89	1.	1		1335	164	0.	1		1950	239	0.
1		0110	15	0.	1		0725	90	1.	1		1340	165	0.	1		1955	240	0.
1		0115	16	0.	1		0730	91	1.	1		1345	166	0.	1		2000	241	0.
1		0120	17	0.	1		0735	92	1.	1		1350	167	0.	1		2005	242	0.
1		0125	18	1.	1		0740	93	1.	1		1355	168	0.	1		2010	243	0.
1		0130	19	1.	1		0745	94	0.	1		1400	169	0.	1		2015	244	0.
1		0135	20	1.	1		0750	95	0.	1		1405	170	0.	1		2020	245	0.
1		0140	21	1.	1		0755	96	0.	1		1410	171	0.	1		2025	246	0.
1		0145	22	1.	1		0800	97	0.	1		1415	172	0.	1		2030	247	0.
1		0150	23	1.	1		0805	98	0.	1		1420	173	0.	1		2035	248	0.
1		0155	24	1.	1		0810	99	0.	1		1425	174	0.	1		2040	249	0.
1		0200	25	1.	1		0815	100	0.	1		1430	175	0.	1		2045	250	0.
1		0205	26	1.	1		0820	101	0.	1		1435	176	0.	1		2050	251	0.
1		0210	27	1.	1		0825	102	0.	1		1440	177	0.	1		2055	252	0.
1		0215	28	1.	1		0830	103	0.	1		1445	178	0.	1		2100	253	0.
1		0220	29	1.	1		0835	104	0.	1		1450	179	0.	1		2105	254	0.
1		0225	30	1.	1		0840	105	0.	1		1455	180	0.	1		2110	255	0.
1		0230	31	1.	1		0845	106	0.	1		1500	181	0.	1		2115	256	0.
1		0235	32	1.	1		0850	107	0.	1		1505	182	0.	1		2120	257	0.
1		0240	33	1.	1		0855	108	0.	1		1510	183	0.	1		2125	258	0.
1		0245	34	1.	1		0900	109	0.	1		1515	184	0.	1		2130	259	0.
1		0250	35	1.	1		0905	110	0.	1		1520	185	0.	1		2135	260	0.
1		0255	36	1.	1		0910	111	0.	1		1525	186	0.	1		2140	261	0.
1		0300	37	1.	1		0915	112	0.	1		1530	187	0.	1		2145	262	0.
1		0305	38	1.	1		0920	113	0.	1		1535	188	0.	1		2150	263	0.
1		0310	39	1.	1		0925	114	0.	1		1540	189	0.	1		2155	264	0.
1		0315	40	1.	1		0930	115	0.	1		1545	190	0.	1		2200	265	0.
1		0320	41	1.	1		0935	116	0.	1		1550	191	0.	1		2205	266	0.
1		0325	42	1.	1		0940	117	0.	1		1555	192	0.	1		2210	267	0.
1		0330	43	1.	1		0945	118	0.	1		1600	193	0.	1		2215	268	0.
1		0335	44	1.	1		0950	119	0.	1		1605	194	0.	1		2220	269	0.
1		0340	45	2.	1		0955	120	0.	1		1610	195	0.	1		2225	270	0.
1		0345	46	2.	1		1000	121	0.	1		1615	196	0.	1		2230	271	0.

1	0350	47	2.	*	1	1005	122	0.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	3.	*	1	1010	123	0.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	4.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	5.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	7.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	10.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	13.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	16.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	18.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	18.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	18.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	18.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	17.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	16.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	15.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	14.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	12.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	11.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	10.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	9.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	8.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	7.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	7.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	6.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	6.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	5.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	5.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	4.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	4.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
18.	4.58		5.	1.	1.	1.
		(INCHES)	.098	.100	.100	.100
		(AC-FT)	2.	2.	2.	2.

CUMULATIVE AREA = .45 SQ MI

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          **************
          *            *
57 KK     *   Node10   *
          *            *
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Route water from culverts to middle of subdivision

63 KO OUTPUT CONTROL VARIABLES

IPRNT 2 PRINT CONTROL

IPLOT 0 PLOT CONTROL

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                QSCAL          0.  HYDROGRAPH PLOT SCALE

          HYDROGRAPH ROUTING DATA

59 RS       STORAGE ROUTING
                NSTPS          1  NUMBER OF SUBREACHES
                 ITYP       STOR  TYPE OF INITIAL CONDITION
               RSVRIC        .00  INITIAL CONDITION
                    X        .00 WORKING R AND D COEFFICIENT

60 RC       NORMAL DEPTH CHANNEL
                  ANL       .035  LEFT OVERBANK N-VALUE
                 ANCH       .035  MAIN CHANNEL N-VALUE
                  ANR       .035  RIGHT OVERBANK N-VALUE
                RLNTH       650.  REACH LENGTH
                  SEL      .0022  ENERGY SLOPE
                ELMAX       15.0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                  CROSS-SECTION DATA
                     --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
62 RY     ELEVATION    15.00    11.00    10.00     5.85     5.85    10.00    11.00    15.00
61 RX     DISTANCE       .00    20.00   120.00   136.60   146.60   162.20   262.20   282.20

                                                  ***

                                  COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

        STORAGE      .00      .09      .20      .34      .50      .69      .91     1.16     1.43     1.78
        OUTFLOW      .00     6.32    21.74    46.35    81.01   126.67   184.32   254.90   339.36   449.06
      ELEVATION     5.85     6.33     6.81     7.29     7.78     8.26     8.74     9.22     9.70    10.18

        STORAGE     2.70     4.27     6.04     7.84     9.68    11.55    13.46    15.40    17.38    19.39
        OUTFLOW   628.29   931.10  1390.33  1963.47  2640.18  3413.96  4280.30  5235.91  6278.27  7405.46
      ELEVATION    10.67    11.15    11.63    12.11    12.59    13.07    13.56    14.04    14.52    15.00

** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN      255. TO     7405.
              THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
              THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

*****************************************************************************************************************

                                  HYDROGRAPH AT STATION   Node10

*****************************************************************************************************************
                                        *                                        *
DA MON HRMN ORD  OUTFLOW  STORAGE   STAGE * DA MON HRMN ORD  OUTFLOW  STORAGE   STAGE * DA MON HRMN ORD  OUTFLOW  STORAGE   STAGE
                                        *                                        *
 1    0000   1      0.       .0     5.8 *  1    0820 101      0.       .0     5.9 *  1    1640 201      0.       .0     5.8
 1    0005   2      0.       .0     5.9 *  1    0825 102      0.       .0     5.9 *  1    1645 202      0.       .0     5.8
 1    0010   3      0.       .0     5.9 *  1    0830 103      0.       .0     5.9 *  1    1650 203      0.       .0     5.8
 1    0015   4      0.       .0     5.9 *  1    0835 104      0.       .0     5.9 *  1    1655 204      0.       .0     5.8
 1    0020   5      0.       .0     5.9 *  1    0840 105      0.       .0     5.9 *  1    1700 205      0.       .0     5.8
 1    0025   6      0.       .0     5.9 *  1    0845 106      0.       .0     5.9 *  1    1705 206      0.       .0     5.8
 1    0030   7      0.       .0     5.9 *  1    0850 107      0.       .0     5.9 *  1    1710 207      0.       .0     5.8
 1    0035   8      0.       .0     5.9 *  1    0855 108      0.       .0     5.9 *  1    1715 208      0.       .0     5.8
 1    0040   9      0.       .0     5.9 *  1    0900 109      0.       .0     5.9 *  1    1720 209      0.       .0     5.8
 1    0045  10      0.       .0     5.9 *  1    0905 110      0.       .0     5.9 *  1    1725 210      0.       .0     5.8
```

1	0050	11	0.	.0	5.9	*	1	0910	111	0.	.0	5.9	*	1	1730	211	0.	.0	5.8
1	0055	12	0.	.0	5.9	*	1	0915	112	0.	.0	5.9	*	1	1735	212	0.	.0	5.8
1	0100	13	0.	.0	5.9	*	1	0920	113	0.	.0	5.9	*	1	1740	213	0.	.0	5.8
1	0105	14	0.	.0	5.9	*	1	0925	114	0.	.0	5.9	*	1	1745	214	0.	.0	5.8
1	0110	15	0.	.0	5.9	*	1	0930	115	0.	.0	5.9	*	1	1750	215	0.	.0	5.8
1	0115	16	0.	.0	5.9	*	1	0935	116	0.	.0	5.9	*	1	1755	216	0.	.0	5.8
1	0120	17	0.	.0	5.9	*	1	0940	117	0.	.0	5.9	*	1	1800	217	0.	.0	5.8
1	0125	18	0.	.0	5.9	*	1	0945	118	0.	.0	5.9	*	1	1805	218	0.	.0	5.8
1	0130	19	0.	.0	5.9	*	1	0950	119	0.	.0	5.9	*	1	1810	219	0.	.0	5.8
1	0135	20	0.	.0	5.9	*	1	0955	120	0.	.0	5.9	*	1	1815	220	0.	.0	5.8
1	0140	21	1.	.0	5.9	*	1	1000	121	0.	.0	5.9	*	1	1820	221	0.	.0	5.8
1	0145	22	1.	.0	5.9	*	1	1005	122	0.	.0	5.9	*	1	1825	222	0.	.0	5.8
1	0150	23	1.	.0	5.9	*	1	1010	123	0.	.0	5.9	*	1	1830	223	0.	.0	5.8
1	0155	24	1.	.0	5.9	*	1	1015	124	0.	.0	5.9	*	1	1835	224	0.	.0	5.8
1	0200	25	1.	.0	5.9	*	1	1020	125	0.	.0	5.9	*	1	1840	225	0.	.0	5.8
1	0205	26	1.	.0	5.9	*	1	1025	126	0.	.0	5.9	*	1	1845	226	0.	.0	5.8
1	0210	27	1.	.0	5.9	*	1	1030	127	0.	.0	5.9	*	1	1850	227	0.	.0	5.8
1	0215	28	1.	.0	5.9	*	1	1035	128	0.	.0	5.9	*	1	1855	228	0.	.0	5.8
1	0220	29	1.	.0	5.9	*	1	1040	129	0.	.0	5.9	*	1	1900	229	0.	.0	5.8
1	0225	30	1.	.0	5.9	*	1	1045	130	0.	.0	5.9	*	1	1905	230	0.	.0	5.8
1	0230	31	1.	.0	5.9	*	1	1050	131	0.	.0	5.9	*	1	1910	231	0.	.0	5.8
1	0235	32	1.	.0	5.9	*	1	1055	132	0.	.0	5.9	*	1	1915	232	0.	.0	5.8
1	0240	33	1.	.0	5.9	*	1	1100	133	0.	.0	5.9	*	1	1920	233	0.	.0	5.8
1	0245	34	1.	.0	5.9	*	1	1105	134	0.	.0	5.9	*	1	1925	234	0.	.0	5.8
1	0250	35	1.	.0	5.9	*	1	1110	135	0.	.0	5.9	*	1	1930	235	0.	.0	5.8
1	0255	36	1.	.0	5.9	*	1	1115	136	0.	.0	5.9	*	1	1935	236	0.	.0	5.8
1	0300	37	1.	.0	5.9	*	1	1120	137	0.	.0	5.9	*	1	1940	237	0.	.0	5.8
1	0305	38	1.	.0	5.9	*	1	1125	138	0.	.0	5.9	*	1	1945	238	0.	.0	5.8
1	0310	39	1.	.0	5.9	*	1	1130	139	0.	.0	5.9	*	1	1950	239	0.	.0	5.8
1	0315	40	1.	.0	5.9	*	1	1135	140	0.	.0	5.8	*	1	1955	240	0.	.0	5.8
1	0320	41	1.	.0	5.9	*	1	1140	141	0.	.0	5.8	*	1	2000	241	0.	.0	5.8
1	0325	42	1.	.0	5.9	*	1	1145	142	0.	.0	5.8	*	1	2005	242	0.	.0	5.8
1	0330	43	1.	.0	5.9	*	1	1150	143	0.	.0	5.8	*	1	2010	243	0.	.0	5.8
1	0335	44	1.	.0	5.9	*	1	1155	144	0.	.0	5.8	*	1	2015	244	0.	.0	5.8
1	0340	45	1.	.0	5.9	*	1	1200	145	0.	.0	5.8	*	1	2020	245	0.	.0	5.8
1	0345	46	1.	.0	6.0	*	1	1205	146	0.	.0	5.8	*	1	2025	246	0.	.0	5.8
1	0350	47	2.	.0	6.0	*	1	1210	147	0.	.0	5.8	*	1	2030	247	0.	.0	5.8
1	0355	48	2.	.0	6.0	*	1	1215	148	0.	.0	5.8	*	1	2035	248	0.	.0	5.8
1	0400	49	3.	.0	6.1	*	1	1220	149	0.	.0	5.8	*	1	2040	249	0.	.0	5.8
1	0405	50	3.	.0	6.1	*	1	1225	150	0.	.0	5.8	*	1	2045	250	0.	.0	5.8
1	0410	51	4.	.1	6.2	*	1	1230	151	0.	.0	5.8	*	1	2050	251	0.	.0	5.8
1	0415	52	6.	.1	6.3	*	1	1235	152	0.	.0	5.8	*	1	2055	252	0.	.0	5.8
1	0420	53	10.	.1	6.4	*	1	1240	153	0.	.0	5.8	*	1	2100	253	0.	.0	5.8
1	0425	54	13.	.1	6.5	*	1	1245	154	0.	.0	5.8	*	1	2105	254	0.	.0	5.8
1	0430	55	15.	.2	6.6	*	1	1250	155	0.	.0	5.8	*	1	2110	255	0.	.0	5.8
1	0435	56	17.	.2	6.7	*	1	1255	156	0.	.0	5.8	*	1	2115	256	0.	.0	5.8
1	0440	57	18.	.2	6.7	*	1	1300	157	0.	.0	5.8	*	1	2120	257	0.	.0	5.8
1	0445	58	18.	.2	6.7	*	1	1305	158	0.	.0	5.8	*	1	2125	258	0.	.0	5.8
1	0450	59	17.	.2	6.7	*	1	1310	159	0.	.0	5.8	*	1	2130	259	0.	.0	5.8
1	0455	60	17.	.2	6.7	*	1	1315	160	0.	.0	5.8	*	1	2135	260	0.	.0	5.8
1	0500	61	16.	.2	6.6	*	1	1320	161	0.	.0	5.8	*	1	2140	261	0.	.0	5.8
1	0505	62	15.	.1	6.6	*	1	1325	162	0.	.0	5.8	*	1	2145	262	0.	.0	5.8
1	0510	63	14.	.1	6.6	*	1	1330	163	0.	.0	5.8	*	1	2150	263	0.	.0	5.8
1	0515	64	12.	.1	6.5	*	1	1335	164	0.	.0	5.8	*	1	2155	264	0.	.0	5.8
1	0520	65	11.	.1	6.5	*	1	1340	165	0.	.0	5.8	*	1	2200	265	0.	.0	5.8
1	0525	66	10.	.1	6.5	*	1	1345	166	0.	.0	5.8	*	1	2205	266	0.	.0	5.8
1	0530	67	9.	.1	6.4	*	1	1350	167	0.	.0	5.8	*	1	2210	267	0.	.0	5.8
1	0535	68	8.	.1	6.4	*	1	1355	168	0.	.0	5.8	*	1	2215	268	0.	.0	5.8

1	0540	69	8.	.1	6.4	*	1	1400	169	0.	.0	5.8	*	1	2220	269	0.	.0	5.8
1	0545	70	7.	.1	6.3	*	1	1405	170	0.	.0	5.8	*	1	2225	270	0.	.0	5.8
1	0550	71	6.	.1	6.3	*	1	1410	171	0.	.0	5.8	*	1	2230	271	0.	.0	5.8
1	0555	72	6.	.1	6.3	*	1	1415	172	0.	.0	5.8	*	1	2235	272	0.	.0	5.8
1	0600	73	6.	.1	6.3	*	1	1420	173	0.	.0	5.8	*	1	2240	273	0.	.0	5.8
1	0605	74	5.	.1	6.2	*	1	1425	174	0.	.0	5.8	*	1	2245	274	0.	.0	5.8
1	0610	75	5.	.1	6.2	*	1	1430	175	0.	.0	5.8	*	1	2250	275	0.	.0	5.8
1	0615	76	4.	.1	6.2	*	1	1435	176	0.	.0	5.8	*	1	2255	276	0.	.0	5.8
1	0620	77	4.	.1	6.2	*	1	1440	177	0.	.0	5.8	*	1	2300	277	0.	.0	5.8
1	0625	78	4.	.1	6.1	*	1	1445	178	0.	.0	5.8	*	1	2305	278	0.	.0	5.8
1	0630	79	3.	.0	6.1	*	1	1450	179	0.	.0	5.8	*	1	2310	279	0.	.0	5.8
1	0635	80	3.	.0	6.1	*	1	1455	180	0.	.0	5.8	*	1	2315	280	0.	.0	5.8
1	0640	81	3.	.0	6.1	*	1	1500	181	0.	.0	5.8	*	1	2320	281	0.	.0	5.8
1	0645	82	3.	.0	6.0	*	1	1505	182	0.	.0	5.8	*	1	2325	282	0.	.0	5.8
1	0650	83	2.	.0	6.0	*	1	1510	183	0.	.0	5.8	*	1	2330	283	0.	.0	5.8
1	0655	84	2.	.0	6.0	*	1	1515	184	0.	.0	5.8	*	1	2335	284	0.	.0	5.8
1	0700	85	2.	.0	6.0	*	1	1520	185	0.	.0	5.8	*	1	2340	285	0.	.0	5.8
1	0705	86	2.	.0	6.0	*	1	1525	186	0.	.0	5.8	*	1	2345	286	0.	.0	5.8
1	0710	87	1.	.0	6.0	*	1	1530	187	0.	.0	5.8	*	1	2350	287	0.	.0	5.8
1	0715	88	1.	.0	6.0	*	1	1535	188	0.	.0	5.8	*	1	2355	288	0.	.0	5.8
1	0720	89	1.	.0	5.9	*	1	1540	189	0.	.0	5.8	*	2	0000	289	0.	.0	5.8
1	0725	90	1.	.0	5.9	*	1	1545	190	0.	.0	5.8	*	2	0005	290	0.	.0	5.8
1	0730	91	1.	.0	5.9	*	1	1550	191	0.	.0	5.8	*	2	0010	291	0.	.0	5.8
1	0735	92	1.	.0	5.9	*	1	1555	192	0.	.0	5.8	*	2	0015	292	0.	.0	5.8
1	0740	93	1.	.0	5.9	*	1	1600	193	0.	.0	5.8	*	2	0020	293	0.	.0	5.8
1	0745	94	1.	.0	5.9	*	1	1605	194	0.	.0	5.8	*	2	0025	294	0.	.0	5.8
1	0750	95	1.	.0	5.9	*	1	1610	195	0.	.0	5.8	*	2	0030	295	0.	.0	5.8
1	0755	96	1.	.0	5.9	*	1	1615	196	0.	.0	5.8	*	2	0035	296	0.	.0	5.8
1	0800	97	0.	.0	5.9	*	1	1620	197	0.	.0	5.8	*	2	0040	297	0.	.0	5.8
1	0805	98	0.	.0	5.9	*	1	1625	198	0.	.0	5.8	*	2	0045	298	0.	.0	5.8
1	0810	99	0.	.0	5.9	*	1	1630	199	0.	.0	5.8	*	2	0050	299	0.	.0	5.8
1	0815	100	0.	.0	5.9	*	1	1635	200	0.	.0	5.8	*	2	0055	300	0.	.0	5.8
						*							*						

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)					
		(CFS)				
18.	4.75		5.	1.	1.	1.
		(INCHES)	.098	.100	.100	.100
		(AC-FT)	2.	2.	2.	2.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
(AC-FT)	(HR)				
0.	4.67	0.	0.	0.	0.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
(FEET)	(HR)				
6.69	4.75	6.14	5.92	5.92	5.92

CUMULATIVE AREA = .45 SQ MI

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*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

          **************
          *            *
64 KK     *   DEVELO   *     PE RAINFALL FOR G3
          *            *
          **************
                         6-HOUR RAINFALL PATTERN NO. 1.23 WAS USED TO FIND TC & R FOR THIS BASIN
                         THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .990
                        L =  .30  Kb = .072  Adj. Slope =   60.9

74 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          2  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL         0.  HYDROGRAPH PLOT SCALE

             SUBBASIN RUNOFF DATA

68 BA          SUBBASIN CHARACTERISTICS
                     TAREA        .01  SUBBASIN AREA

               PRECIPITATION DATA

69 PB                STORM       1.19  BASIN TOTAL PRECIPITATION

11 PI            INCREMENTAL PRECIPITATION PATTERN
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00       .00       .01       .01       .01       .01       .01       .01       .03
                     .03       .03       .06       .06       .06       .14       .14       .14       .03       .03
                     .03       .01       .01       .01       .01       .01       .01       .00       .00       .00
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00

70 LG          GREEN AND AMPT LOSS RATE
                     STRTL        .43  STARTING LOSS
                       DTH        .25  MOISTURE DEFICIT
                      PSIF       3.50  WETTING FRONT SUCTION
                     XKSAT        .51  HYDRAULIC CONDUCTIVITY
                     RTIMP      30.00  PERCENT IMPERVIOUS AREA

71 UC          CLARK UNITGRAPH
                        TC        .64  TIME OF CONCENTRATION
                         R       1.19  STORAGE COEFFICIENT

72 UA          ACCUMULATED-AREA VS. TIME,  11 ORDINATES
                       .0       5.0      16.0      30.0      65.0      77.0      84.0      90.0      94.0      97.0
                    100.0

                                                   ***

                                          UNIT HYDROGRAPH PARAMETERS
                                     CLARK   TC=   .64 HR,       R=  1.19 HR
                                    SNYDER   TP=   .50 HR,      CP=   .31

                                          UNIT HYDROGRAPH
```

79 END-OF-PERIOD ORDINATES

0.	1.	2.	3.	4.	4.	4.	4.	4.	3.
3.	3.	3.	3.	2.	2.	2.	2.	2.	2.
2.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	

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HYDROGRAPH AT STATION DEVELO

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
								*								
1		0000	1	.00	.00	.00	0.	*	1		1230	151	.00	.00	.00	0.
1		0005	2	.00	.00	.00	0.	*	1		1235	152	.00	.00	.00	0.
1		0010	3	.00	.00	.00	0.	*	1		1240	153	.00	.00	.00	0.
1		0015	4	.00	.00	.00	0.	*	1		1245	154	.00	.00	.00	0.
1		0020	5	.00	.00	.00	0.	*	1		1250	155	.00	.00	.00	0.
1		0025	6	.00	.00	.00	0.	*	1		1255	156	.00	.00	.00	0.
1		0030	7	.00	.00	.00	0.	*	1		1300	157	.00	.00	.00	0.
1		0035	8	.00	.00	.00	0.	*	1		1305	158	.00	.00	.00	0.
1		0040	9	.00	.00	.00	0.	*	1		1310	159	.00	.00	.00	0.
1		0045	10	.00	.00	.00	0.	*	1		1315	160	.00	.00	.00	0.
1		0050	11	.00	.00	.00	0.	*	1		1320	161	.00	.00	.00	0.
1		0055	12	.00	.00	.00	0.	*	1		1325	162	.00	.00	.00	0.
1		0100	13	.00	.00	.00	0.	*	1		1330	163	.00	.00	.00	0.
1		0105	14	.00	.00	.00	0.	*	1		1335	164	.00	.00	.00	0.
1		0110	15	.00	.00	.00	0.	*	1		1340	165	.00	.00	.00	0.
1		0115	16	.00	.00	.00	0.	*	1		1345	166	.00	.00	.00	0.
1		0120	17	.00	.00	.00	0.	*	1		1350	167	.00	.00	.00	0.
1		0125	18	.00	.00	.00	0.	*	1		1355	168	.00	.00	.00	0.
1		0130	19	.00	.00	.00	0.	*	1		1400	169	.00	.00	.00	0.
1		0135	20	.00	.00	.00	0.	*	1		1405	170	.00	.00	.00	0.
1		0140	21	.00	.00	.00	0.	*	1		1410	171	.00	.00	.00	0.
1		0145	22	.00	.00	.00	0.	*	1		1415	172	.00	.00	.00	0.
1		0150	23	.00	.00	.00	0.	*	1		1420	173	.00	.00	.00	0.
1		0155	24	.00	.00	.00	0.	*	1		1425	174	.00	.00	.00	0.
1		0200	25	.00	.00	.00	0.	*	1		1430	175	.00	.00	.00	0.
1		0205	26	.00	.00	.00	0.	*	1		1435	176	.00	.00	.00	0.
1		0210	27	.00	.00	.00	0.	*	1		1440	177	.00	.00	.00	0.
1		0215	28	.00	.00	.00	0.	*	1		1445	178	.00	.00	.00	0.
1		0220	29	.01	.00	.00	0.	*	1		1450	179	.00	.00	.00	0.
1		0225	30	.01	.00	.00	0.	*	1		1455	180	.00	.00	.00	0.
1		0230	31	.01	.00	.00	0.	*	1		1500	181	.00	.00	.00	0.
1		0235	32	.00	.00	.00	0.	*	1		1505	182	.00	.00	.00	0.
1		0240	33	.00	.00	.00	0.	*	1		1510	183	.00	.00	.00	0.
1		0245	34	.00	.00	.00	0.	*	1		1515	184	.00	.00	.00	0.
1		0250	35	.01	.01	.00	0.	*	1		1520	185	.00	.00	.00	0.
1		0255	36	.01	.01	.00	0.	*	1		1525	186	.00	.00	.00	0.
1		0300	37	.01	.01	.00	0.	*	1		1530	187	.00	.00	.00	0.
1		0305	38	.01	.01	.00	0.	*	1		1535	188	.00	.00	.00	0.
1		0310	39	.01	.01	.00	0.	*	1		1540	189	.00	.00	.00	0.
1		0315	40	.01	.01	.00	0.	*	1		1545	190	.00	.00	.00	0.

1	0320	41	.03	.02	.01	0.	*	1	1550	191	.00	.00	.00	0.
1	0325	42	.03	.02	.01	0.	*	1	1555	192	.00	.00	.00	0.
1	0330	43	.03	.02	.01	0.	*	1	1600	193	.00	.00	.00	0.
1	0335	44	.07	.05	.02	0.	*	1	1605	194	.00	.00	.00	0.
1	0340	45	.07	.05	.02	0.	*	1	1610	195	.00	.00	.00	0.
1	0345	46	.07	.05	.02	0.	*	1	1615	196	.00	.00	.00	0.
1	0350	47	.16	.11	.05	0.	*	1	1620	197	.00	.00	.00	0.
1	0355	48	.16	.11	.05	0.	*	1	1625	198	.00	.00	.00	0.
1	0400	49	.16	.09	.07	1.	*	1	1630	199	.00	.00	.00	0.
1	0405	50	.04	.03	.01	1.	*	1	1635	200	.00	.00	.00	0.
1	0410	51	.04	.03	.01	1.	*	1	1640	201	.00	.00	.00	0.
1	0415	52	.04	.03	.01	1.	*	1	1645	202	.00	.00	.00	0.
1	0420	53	.01	.01	.00	1.	*	1	1650	203	.00	.00	.00	0.
1	0425	54	.01	.01	.00	1.	*	1	1655	204	.00	.00	.00	0.
1	0430	55	.01	.01	.00	1.	*	1	1700	205	.00	.00	.00	0.
1	0435	56	.01	.01	.00	1.	*	1	1705	206	.00	.00	.00	0.
1	0440	57	.01	.01	.00	1.	*	1	1710	207	.00	.00	.00	0.
1	0445	58	.01	.01	.00	1.	*	1	1715	208	.00	.00	.00	0.
1	0450	59	.00	.00	.00	1.	*	1	1720	209	.00	.00	.00	0.
1	0455	60	.00	.00	.00	1.	*	1	1725	210	.00	.00	.00	0.
1	0500	61	.00	.00	.00	1.	*	1	1730	211	.00	.00	.00	0.
1	0505	62	.00	.00	.00	1.	*	1	1735	212	.00	.00	.00	0.
1	0510	63	.00	.00	.00	1.	*	1	1740	213	.00	.00	.00	0.
1	0515	64	.00	.00	.00	1.	*	1	1745	214	.00	.00	.00	0.
1	0520	65	.00	.00	.00	1.	*	1	1750	215	.00	.00	.00	0.
1	0525	66	.00	.00	.00	1.	*	1	1755	216	.00	.00	.00	0.
1	0530	67	.00	.00	.00	1.	*	1	1800	217	.00	.00	.00	0.
1	0535	68	.00	.00	.00	1.	*	1	1805	218	.00	.00	.00	0.
1	0540	69	.00	.00	.00	1.	*	1	1810	219	.00	.00	.00	0.
1	0545	70	.00	.00	.00	0.	*	1	1815	220	.00	.00	.00	0.
1	0550	71	.00	.00	.00	0.	*	1	1820	221	.00	.00	.00	0.
1	0555	72	.00	.00	.00	0.	*	1	1825	222	.00	.00	.00	0.
1	0600	73	.00	.00	.00	0.	*	1	1830	223	.00	.00	.00	0.
1	0605	74	.00	.00	.00	0.	*	1	1835	224	.00	.00	.00	0.
1	0610	75	.00	.00	.00	0.	*	1	1840	225	.00	.00	.00	0.
1	0615	76	.00	.00	.00	0.	*	1	1845	226	.00	.00	.00	0.
1	0620	77	.00	.00	.00	0.	*	1	1850	227	.00	.00	.00	0.
1	0625	78	.00	.00	.00	0.	*	1	1855	228	.00	.00	.00	0.
1	0630	79	.00	.00	.00	0.	*	1	1900	229	.00	.00	.00	0.
1	0635	80	.00	.00	.00	0.	*	1	1905	230	.00	.00	.00	0.
1	0640	81	.00	.00	.00	0.	*	1	1910	231	.00	.00	.00	0.
1	0645	82	.00	.00	.00	0.	*	1	1915	232	.00	.00	.00	0.
1	0650	83	.00	.00	.00	0.	*	1	1920	233	.00	.00	.00	0.
1	0655	84	.00	.00	.00	0.	*	1	1925	234	.00	.00	.00	0.
1	0700	85	.00	.00	.00	0.	*	1	1930	235	.00	.00	.00	0.
1	0705	86	.00	.00	.00	0.	*	1	1935	236	.00	.00	.00	0.
1	0710	87	.00	.00	.00	0.	*	1	1940	237	.00	.00	.00	0.
1	0715	88	.00	.00	.00	0.	*	1	1945	238	.00	.00	.00	0.
1	0720	89	.00	.00	.00	0.	*	1	1950	239	.00	.00	.00	0.
1	0725	90	.00	.00	.00	0.	*	1	1955	240	.00	.00	.00	0.
1	0730	91	.00	.00	.00	0.	*	1	2000	241	.00	.00	.00	0.
1	0735	92	.00	.00	.00	0.	*	1	2005	242	.00	.00	.00	0.
1	0740	93	.00	.00	.00	0.	*	1	2010	243	.00	.00	.00	0.
1	0745	94	.00	.00	.00	0.	*	1	2015	244	.00	.00	.00	0.
1	0750	95	.00	.00	.00	0.	*	1	2020	245	.00	.00	.00	0.
1	0755	96	.00	.00	.00	0.	*	1	2025	246	.00	.00	.00	0.
1	0800	97	.00	.00	.00	0.	*	1	2030	247	.00	.00	.00	0.
1	0805	98	.00	.00	.00	0.	*	1	2035	248	.00	.00	.00	0.

1	0810	99	.00	.00	.00	0.	*	1	2040	249	.00	.00	.00	0.
1	0815	100	.00	.00	.00	0.	*	1	2045	250	.00	.00	.00	0.
1	0820	101	.00	.00	.00	0.	*	1	2050	251	.00	.00	.00	0.
1	0825	102	.00	.00	.00	0.	*	1	2055	252	.00	.00	.00	0.
1	0830	103	.00	.00	.00	0.	*	1	2100	253	.00	.00	.00	0.
1	0835	104	.00	.00	.00	0.	*	1	2105	254	.00	.00	.00	0.
1	0840	105	.00	.00	.00	0.	*	1	2110	255	.00	.00	.00	0.
1	0845	106	.00	.00	.00	0.	*	1	2115	256	.00	.00	.00	0.
1	0850	107	.00	.00	.00	0.	*	1	2120	257	.00	.00	.00	0.
1	0855	108	.00	.00	.00	0.	*	1	2125	258	.00	.00	.00	0.
1	0900	109	.00	.00	.00	0.	*	1	2130	259	.00	.00	.00	0.
1	0905	110	.00	.00	.00	0.	*	1	2135	260	.00	.00	.00	0.
1	0910	111	.00	.00	.00	0.	*	1	2140	261	.00	.00	.00	0.
1	0915	112	.00	.00	.00	0.	*	1	2145	262	.00	.00	.00	0.
1	0920	113	.00	.00	.00	0.	*	1	2150	263	.00	.00	.00	0.
1	0925	114	.00	.00	.00	0.	*	1	2155	264	.00	.00	.00	0.
1	0930	115	.00	.00	.00	0.	*	1	2200	265	.00	.00	.00	0.
1	0935	116	.00	.00	.00	0.	*	1	2205	266	.00	.00	.00	0.
1	0940	117	.00	.00	.00	0.	*	1	2210	267	.00	.00	.00	0.
1	0945	118	.00	.00	.00	0.	*	1	2215	268	.00	.00	.00	0.
1	0950	119	.00	.00	.00	0.	*	1	2220	269	.00	.00	.00	0.
1	0955	120	.00	.00	.00	0.	*	1	2225	270	.00	.00	.00	0.
1	1000	121	.00	.00	.00	0.	*	1	2230	271	.00	.00	.00	0.
1	1005	122	.00	.00	.00	0.	*	1	2235	272	.00	.00	.00	0.
1	1010	123	.00	.00	.00	0.	*	1	2240	273	.00	.00	.00	0.
1	1015	124	.00	.00	.00	0.	*	1	2245	274	.00	.00	.00	0.
1	1020	125	.00	.00	.00	0.	*	1	2250	275	.00	.00	.00	0.
1	1025	126	.00	.00	.00	0.	*	1	2255	276	.00	.00	.00	0.
1	1030	127	.00	.00	.00	0.	*	1	2300	277	.00	.00	.00	0.
1	1035	128	.00	.00	.00	0.	*	1	2305	278	.00	.00	.00	0.
1	1040	129	.00	.00	.00	0.	*	1	2310	279	.00	.00	.00	0.
1	1045	130	.00	.00	.00	0.	*	1	2315	280	.00	.00	.00	0.
1	1050	131	.00	.00	.00	0.	*	1	2320	281	.00	.00	.00	0.
1	1055	132	.00	.00	.00	0.	*	1	2325	282	.00	.00	.00	0.
1	1100	133	.00	.00	.00	0.	*	1	2330	283	.00	.00	.00	0.
1	1105	134	.00	.00	.00	0.	*	1	2335	284	.00	.00	.00	0.
1	1110	135	.00	.00	.00	0.	*	1	2340	285	.00	.00	.00	0.
1	1115	136	.00	.00	.00	0.	*	1	2345	286	.00	.00	.00	0.
1	1120	137	.00	.00	.00	0.	*	1	2350	287	.00	.00	.00	0.
1	1125	138	.00	.00	.00	0.	*	1	2355	288	.00	.00	.00	0.
1	1130	139	.00	.00	.00	0.	*	2	0000	289	.00	.00	.00	0.
1	1135	140	.00	.00	.00	0.	*	2	0005	290	.00	.00	.00	0.
1	1140	141	.00	.00	.00	0.	*	2	0010	291	.00	.00	.00	0.
1	1145	142	.00	.00	.00	0.	*	2	0015	292	.00	.00	.00	0.
1	1150	143	.00	.00	.00	0.	*	2	0020	293	.00	.00	.00	0.
1	1155	144	.00	.00	.00	0.	*	2	0025	294	.00	.00	.00	0.
1	1200	145	.00	.00	.00	0.	*	2	0030	295	.00	.00	.00	0.
1	1205	146	.00	.00	.00	0.	*	2	0035	296	.00	.00	.00	0.
1	1210	147	.00	.00	.00	0.	*	2	0040	297	.00	.00	.00	0.
1	1215	148	.00	.00	.00	0.	*	2	0045	298	.00	.00	.00	0.
1	1220	149	.00	.00	.00	0.	*	2	0050	299	.00	.00	.00	0.
1	1225	150	.00	.00	.00	0.	*	2	0055	300	.00	.00	.00	0.
							*							

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TOTAL RAINFALL = 1.19, TOTAL LOSS = .81, TOTAL EXCESS = .38

PEAK FLOW TIME MAXIMUM AVERAGE FLOW

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                                    6-HR        24-HR       72-HR     24.92-HR
(CFS)       (HR)
                          (CFS)
   1.       4.42                     0.          0.          0.          0.
                        (INCHES)    .353        .375        .375        .375
                         (AC-FT)     0.          0.          0.          0.

                       CUMULATIVE AREA =     .01 SQ MI
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          **************
          *            *
75 KK     *   Node8    *
          *            *
          **************
                        Route area through subdivision to remove retention storage

80 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          2  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL         0.  HYDROGRAPH PLOT SCALE

             HYDROGRAPH ROUTING DATA

77 RS          STORAGE ROUTING
                     NSTPS          1  NUMBER OF SUBREACHES
                      ITYP       STOR  TYPE OF INITIAL CONDITION
                    RSVRIC        .00  INITIAL CONDITION
                         X        .00 WORKING R AND D COEFFICIENT

78 SV            STORAGE         .0       .6       .6       .6       .6       .6       .6

79 SQ          DISCHARGE         0.       0.      10.      20.      30.      40.      50.

                                                          ***

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN        0. TO       50.
                THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
                THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)
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HYDROGRAPH AT STATION Node8

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DA	MON	HRMN	ORD	OUTFLOW	STORAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE
1		0000	1	0.	.00	*	1		0820	101	0.	.19	*	1		1640	201	0.	.20
1		0005	2	0.	.00	*	1		0825	102	0.	.20	*	1		1645	202	0.	.20
1		0010	3	0.	.00	*	1		0830	103	0.	.20	*	1		1650	203	0.	.20
1		0015	4	0.	.00	*	1		0835	104	0.	.20	*	1		1655	204	0.	.20
1		0020	5	0.	.00	*	1		0840	105	0.	.20	*	1		1700	205	0.	.20

1	0025	6	0.	.00	*	1	0845	106	0.	.20	*	1	1705	206	0.	.20
1	0030	7	0.	.00	*	1	0850	107	0.	.20	*	1	1710	207	0.	.20
1	0035	8	0.	.00	*	1	0855	108	0.	.20	*	1	1715	208	0.	.20
1	0040	9	0.	.00	*	1	0900	109	0.	.20	*	1	1720	209	0.	.20
1	0045	10	0.	.00	*	1	0905	110	0.	.20	*	1	1725	210	0.	.20
1	0050	11	0.	.00	*	1	0910	111	0.	.20	*	1	1730	211	0.	.20
1	0055	12	0.	.00	*	1	0915	112	0.	.20	*	1	1735	212	0.	.20
1	0100	13	0.	.00	*	1	0920	113	0.	.20	*	1	1740	213	0.	.20
1	0105	14	0.	.00	*	1	0925	114	0.	.20	*	1	1745	214	0.	.20
1	0110	15	0.	.00	*	1	0930	115	0.	.20	*	1	1750	215	0.	.20
1	0115	16	0.	.00	*	1	0935	116	0.	.20	*	1	1755	216	0.	.20
1	0120	17	0.	.00	*	1	0940	117	0.	.20	*	1	1800	217	0.	.20
1	0125	18	0.	.00	*	1	0945	118	0.	.20	*	1	1805	218	0.	.20
1	0130	19	0.	.00	*	1	0950	119	0.	.20	*	1	1810	219	0.	.20
1	0135	20	0.	.00	*	1	0955	120	0.	.20	*	1	1815	220	0.	.20
1	0140	21	0.	.00	*	1	1000	121	0.	.20	*	1	1820	221	0.	.20
1	0145	22	0.	.00	*	1	1005	122	0.	.20	*	1	1825	222	0.	.20
1	0150	23	0.	.00	*	1	1010	123	0.	.20	*	1	1830	223	0.	.20
1	0155	24	0.	.00	*	1	1015	124	0.	.20	*	1	1835	224	0.	.20
1	0200	25	0.	.01	*	1	1020	125	0.	.20	*	1	1840	225	0.	.20
1	0205	26	0.	.01	*	1	1025	126	0.	.20	*	1	1845	226	0.	.20
1	0210	27	0.	.01	*	1	1030	127	0.	.20	*	1	1850	227	0.	.20
1	0215	28	0.	.01	*	1	1035	128	0.	.20	*	1	1855	228	0.	.20
1	0220	29	0.	.01	*	1	1040	129	0.	.20	*	1	1900	229	0.	.20
1	0225	30	0.	.01	*	1	1045	130	0.	.20	*	1	1905	230	0.	.20
1	0230	31	0.	.01	*	1	1050	131	0.	.20	*	1	1910	231	0.	.20
1	0235	32	0.	.01	*	1	1055	132	0.	.20	*	1	1915	232	0.	.20
1	0240	33	0.	.01	*	1	1100	133	0.	.20	*	1	1920	233	0.	.20
1	0245	34	0.	.01	*	1	1105	134	0.	.20	*	1	1925	234	0.	.20
1	0250	35	0.	.01	*	1	1110	135	0.	.20	*	1	1930	235	0.	.20
1	0255	36	0.	.01	*	1	1115	136	0.	.20	*	1	1935	236	0.	.20
1	0300	37	0.	.01	*	1	1120	137	0.	.20	*	1	1940	237	0.	.20
1	0305	38	0.	.01	*	1	1125	138	0.	.20	*	1	1945	238	0.	.20
1	0310	39	0.	.01	*	1	1130	139	0.	.20	*	1	1950	239	0.	.20
1	0315	40	0.	.01	*	1	1135	140	0.	.20	*	1	1955	240	0.	.20
1	0320	41	0.	.01	*	1	1140	141	0.	.20	*	1	2000	241	0.	.20
1	0325	42	0.	.01	*	1	1145	142	0.	.20	*	1	2005	242	0.	.20
1	0330	43	0.	.02	*	1	1150	143	0.	.20	*	1	2010	243	0.	.20
1	0335	44	0.	.02	*	1	1155	144	0.	.20	*	1	2015	244	0.	.20
1	0340	45	0.	.02	*	1	1200	145	0.	.20	*	1	2020	245	0.	.20
1	0345	46	0.	.02	*	1	1205	146	0.	.20	*	1	2025	246	0.	.20
1	0350	47	0.	.02	*	1	1210	147	0.	.20	*	1	2030	247	0.	.20
1	0355	48	0.	.02	*	1	1215	148	0.	.20	*	1	2035	248	0.	.20
1	0400	49	0.	.03	*	1	1220	149	0.	.20	*	1	2040	249	0.	.20
1	0405	50	0.	.03	*	1	1225	150	0.	.20	*	1	2045	250	0.	.20
1	0410	51	0.	.04	*	1	1230	151	0.	.20	*	1	2050	251	0.	.20
1	0415	52	0.	.05	*	1	1235	152	0.	.20	*	1	2055	252	0.	.20
1	0420	53	0.	.05	*	1	1240	153	0.	.20	*	1	2100	253	0.	.20
1	0425	54	0.	.06	*	1	1245	154	0.	.20	*	1	2105	254	0.	.20
1	0430	55	0.	.07	*	1	1250	155	0.	.20	*	1	2110	255	0.	.20
1	0435	56	0.	.08	*	1	1255	156	0.	.20	*	1	2115	256	0.	.20
1	0440	57	0.	.08	*	1	1300	157	0.	.20	*	1	2120	257	0.	.20
1	0445	58	0.	.09	*	1	1305	158	0.	.20	*	1	2125	258	0.	.20
1	0450	59	0.	.10	*	1	1310	159	0.	.20	*	1	2130	259	0.	.20
1	0455	60	0.	.10	*	1	1315	160	0.	.20	*	1	2135	260	0.	.20
1	0500	61	0.	.11	*	1	1320	161	0.	.20	*	1	2140	261	0.	.20
1	0505	62	0.	.11	*	1	1325	162	0.	.20	*	1	2145	262	0.	.20
1	0510	63	0.	.12	*	1	1330	163	0.	.20	*	1	2150	263	0.	.20

1	0515	64	0.	.12	*	1	1335	164	0.	.20	*	1	2155	264	0.	.20
1	0520	65	0.	.13	*	1	1340	165	0.	.20	*	1	2200	265	0.	.20
1	0525	66	0.	.13	*	1	1345	166	0.	.20	*	1	2205	266	0.	.20
1	0530	67	0.	.14	*	1	1350	167	0.	.20	*	1	2210	267	0.	.20
1	0535	68	0.	.14	*	1	1355	168	0.	.20	*	1	2215	268	0.	.20
1	0540	69	0.	.15	*	1	1400	169	0.	.20	*	1	2220	269	0.	.20
1	0545	70	0.	.15	*	1	1405	170	0.	.20	*	1	2225	270	0.	.20
1	0550	71	0.	.15	*	1	1410	171	0.	.20	*	1	2230	271	0.	.20
1	0555	72	0.	.15	*	1	1415	172	0.	.20	*	1	2235	272	0.	.20
1	0600	73	0.	.16	*	1	1420	173	0.	.20	*	1	2240	273	0.	.20
1	0605	74	0.	.16	*	1	1425	174	0.	.20	*	1	2245	274	0.	.20
1	0610	75	0.	.16	*	1	1430	175	0.	.20	*	1	2250	275	0.	.20
1	0615	76	0.	.17	*	1	1435	176	0.	.20	*	1	2255	276	0.	.20
1	0620	77	0.	.17	*	1	1440	177	0.	.20	*	1	2300	277	0.	.20
1	0625	78	0.	.17	*	1	1445	178	0.	.20	*	1	2305	278	0.	.20
1	0630	79	0.	.17	*	1	1450	179	0.	.20	*	1	2310	279	0.	.20
1	0635	80	0.	.17	*	1	1455	180	0.	.20	*	1	2315	280	0.	.20
1	0640	81	0.	.18	*	1	1500	181	0.	.20	*	1	2320	281	0.	.20
1	0645	82	0.	.18	*	1	1505	182	0.	.20	*	1	2325	282	0.	.20
1	0650	83	0.	.18	*	1	1510	183	0.	.20	*	1	2330	283	0.	.20
1	0655	84	0.	.18	*	1	1515	184	0.	.20	*	1	2335	284	0.	.20
1	0700	85	0.	.18	*	1	1520	185	0.	.20	*	1	2340	285	0.	.20
1	0705	86	0.	.18	*	1	1525	186	0.	.20	*	1	2345	286	0.	.20
1	0710	87	0.	.18	*	1	1530	187	0.	.20	*	1	2350	287	0.	.20
1	0715	88	0.	.19	*	1	1535	188	0.	.20	*	1	2355	288	0.	.20
1	0720	89	0.	.19	*	1	1540	189	0.	.20	*	2	0000	289	0.	.20
1	0725	90	0.	.19	*	1	1545	190	0.	.20	*	2	0005	290	0.	.20
1	0730	91	0.	.19	*	1	1550	191	0.	.20	*	2	0010	291	0.	.20
1	0735	92	0.	.19	*	1	1555	192	0.	.20	*	2	0015	292	0.	.20
1	0740	93	0.	.19	*	1	1600	193	0.	.20	*	2	0020	293	0.	.20
1	0745	94	0.	.19	*	1	1605	194	0.	.20	*	2	0025	294	0.	.20
1	0750	95	0.	.19	*	1	1610	195	0.	.20	*	2	0030	295	0.	.20
1	0755	96	0.	.19	*	1	1615	196	0.	.20	*	2	0035	296	0.	.20
1	0800	97	0.	.19	*	1	1620	197	0.	.20	*	2	0040	297	0.	.20
1	0805	98	0.	.19	*	1	1625	198	0.	.20	*	2	0045	298	0.	.20
1	0810	99	0.	.19	*	1	1630	199	0.	.20	*	2	0050	299	0.	.20
1	0815	100	0.	.19	*	1	1635	200	0.	.20	*	2	0055	300	0.	.20
					*						*					

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
0.	.08		0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
0.	10.08	0.	0.	0.	0.

CUMULATIVE AREA = .01 SQ MI

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*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

          **************
          *            *
 81 KK    *   Node13   *
          *            *
          **************
                     confluence g1-g2 with g3

 83 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

 85 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

 84 HC          HYDROGRAPH COMBINATION
                      ICOMP          2  NUMBER OF HYDROGRAPHS TO COMBINE

                                                    ***

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                                    HYDROGRAPH AT STATION   Node13
                                         SUM OF  2 HYDROGRAPHS

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	4.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	4.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	4.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	3.	1		1245	154	0.	1		1900	229	0.
1		0020	5	0.	1		0635	80	3.	1		1250	155	0.	1		1905	230	0.
1		0025	6	0.	1		0640	81	3.	1		1255	156	0.	1		1910	231	0.
1		0030	7	0.	1		0645	82	3.	1		1300	157	0.	1		1915	232	0.
1		0035	8	0.	1		0650	83	2.	1		1305	158	0.	1		1920	233	0.
1		0040	9	0.	1		0655	84	2.	1		1310	159	0.	1		1925	234	0.
1		0045	10	0.	1		0700	85	2.	1		1315	160	0.	1		1930	235	0.
1		0050	11	0.	1		0705	86	2.	1		1320	161	0.	1		1935	236	0.
1		0055	12	0.	1		0710	87	1.	1		1325	162	0.	1		1940	237	0.
1		0100	13	0.	1		0715	88	1.	1		1330	163	0.	1		1945	238	0.
1		0105	14	0.	1		0720	89	1.	1		1335	164	0.	1		1950	239	0.
1		0110	15	0.	1		0725	90	1.	1		1340	165	0.	1		1955	240	0.
1		0115	16	0.	1		0730	91	1.	1		1345	166	0.	1		2000	241	0.
1		0120	17	0.	1		0735	92	1.	1		1350	167	0.	1		2005	242	0.
1		0125	18	0.	1		0740	93	1.	1		1355	168	0.	1		2010	243	0.
1		0130	19	0.	1		0745	94	1.	1		1400	169	0.	1		2015	244	0.
1		0135	20	0.	1		0750	95	1.	1		1405	170	0.	1		2020	245	0.
1		0140	21	1.	1		0755	96	1.	1		1410	171	0.	1		2025	246	0.
1		0145	22	1.	1		0800	97	0.	1		1415	172	0.	1		2030	247	0.
1		0150	23	1.	1		0805	98	0.	1		1420	173	0.	1		2035	248	0.
1		0155	24	1.	1		0810	99	0.	1		1425	174	0.	1		2040	249	0.

1	0200	25	1.	*	1	0815	100	0.	*	1	1430	175	0.	*	1	2045	250	0.
1	0205	26	1.	*	1	0820	101	0.	*	1	1435	176	0.	*	1	2050	251	0.
1	0210	27	1.	*	1	0825	102	0.	*	1	1440	177	0.	*	1	2055	252	0.
1	0215	28	1.	*	1	0830	103	0.	*	1	1445	178	0.	*	1	2100	253	0.
1	0220	29	1.	*	1	0835	104	0.	*	1	1450	179	0.	*	1	2105	254	0.
1	0225	30	1.	*	1	0840	105	0.	*	1	1455	180	0.	*	1	2110	255	0.
1	0230	31	1.	*	1	0845	106	0.	*	1	1500	181	0.	*	1	2115	256	0.
1	0235	32	1.	*	1	0850	107	0.	*	1	1505	182	0.	*	1	2120	257	0.
1	0240	33	1.	*	1	0855	108	0.	*	1	1510	183	0.	*	1	2125	258	0.
1	0245	34	1.	*	1	0900	109	0.	*	1	1515	184	0.	*	1	2130	259	0.
1	0250	35	1.	*	1	0905	110	0.	*	1	1520	185	0.	*	1	2135	260	0.
1	0255	36	1.	*	1	0910	111	0.	*	1	1525	186	0.	*	1	2140	261	0.
1	0300	37	1.	*	1	0915	112	0.	*	1	1530	187	0.	*	1	2145	262	0.
1	0305	38	1.	*	1	0920	113	0.	*	1	1535	188	0.	*	1	2150	263	0.
1	0310	39	1.	*	1	0925	114	0.	*	1	1540	189	0.	*	1	2155	264	0.
1	0315	40	1.	*	1	0930	115	0.	*	1	1545	190	0.	*	1	2200	265	0.
1	0320	41	1.	*	1	0935	116	0.	*	1	1550	191	0.	*	1	2205	266	0.
1	0325	42	1.	*	1	0940	117	0.	*	1	1555	192	0.	*	1	2210	267	0.
1	0330	43	1.	*	1	0945	118	0.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	1.	*	1	0950	119	0.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	1.	*	1	0955	120	0.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	1.	*	1	1000	121	0.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	2.	*	1	1005	122	0.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	2.	*	1	1010	123	0.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	3.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	3.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	4.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	6.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	10.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	13.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	15.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	17.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	18.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	18.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	17.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	17.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	16.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	15.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	14.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	12.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	11.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	10.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	9.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	8.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	8.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	7.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	6.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	6.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	6.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	5.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	5.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)				
		(CFS)			

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  18.     4.75                  5.         1.         1.         1.
                   (INCHES)    .096       .098       .098       .098
                    (AC-FT)      2.         2.         2.         2.

                    CUMULATIVE AREA =     .46 SQ MI



*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


          **************
          *            *
 86 KK    *   Node10   *
          *            *
          **************
                     Route water from  middle of subdivision to old mcdowell

 92 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

            HYDROGRAPH ROUTING DATA

 88 RS          STORAGE ROUTING
                      NSTPS          1  NUMBER OF SUBREACHES
                       ITYP       STOR  TYPE OF INITIAL CONDITION
                     RSVRIC        .00  INITIAL CONDITION
                          X        .00 WORKING R AND D COEFFICIENT

 89 RC          NORMAL DEPTH CHANNEL
                        ANL       .035  LEFT OVERBANK N-VALUE
                       ANCH       .035  MAIN CHANNEL N-VALUE
                        ANR       .035  RIGHT OVERBANK N-VALUE
                      RLNTH       650.  REACH LENGTH
                        SEL      .0022  ENERGY SLOPE
                      ELMAX       15.0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                     CROSS-SECTION DATA
                          --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
 91 RY        ELEVATION    15.00     11.00     10.00      5.85      5.85     10.00     11.00     15.00
 90 RX        DISTANCE       .00     20.00    120.00    136.60    146.60    162.20    262.20    282.20

                                                  ***

                                     COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

          STORAGE       .00       .09       .20       .34       .50       .69       .91      1.16      1.43      1.78
          OUTFLOW       .00      6.32     21.74     46.35     81.01    126.67    184.32    254.90    339.36    449.06
        ELEVATION      5.85      6.33      6.81      7.29      7.78      8.26      8.74      9.22      9.70     10.18

          STORAGE      2.70      4.27      6.04      7.84      9.68     11.55     13.46     15.40     17.38     19.39
          OUTFLOW    628.29    931.10   1390.33   1963.47   2640.18   3413.96   4280.30   5235.91   6278.27   7405.46
        ELEVATION     10.67     11.15     11.63     12.11     12.59     13.07     13.56     14.04     14.52     15.00
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*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 255. TO 7405.
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

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HYDROGRAPH AT STATION Node10

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DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	5.8	*	1		0820	101	0.	.0	5.9	*	1		1640	201	0.	.0	5.8
1		0005	2	0.	.0	5.9	*	1		0825	102	0.	.0	5.9	*	1		1645	202	0.	.0	5.8
1		0010	3	0.	.0	5.9	*	1		0830	103	0.	.0	5.9	*	1		1650	203	0.	.0	5.8
1		0015	4	0.	.0	5.9	*	1		0835	104	0.	.0	5.9	*	1		1655	204	0.	.0	5.8
1		0020	5	0.	.0	5.9	*	1		0840	105	0.	.0	5.9	*	1		1700	205	0.	.0	5.8
1		0025	6	0.	.0	5.9	*	1		0845	106	0.	.0	5.9	*	1		1705	206	0.	.0	5.8
1		0030	7	0.	.0	5.9	*	1		0850	107	0.	.0	5.9	*	1		1710	207	0.	.0	5.8
1		0035	8	0.	.0	5.9	*	1		0855	108	0.	.0	5.9	*	1		1715	208	0.	.0	5.8
1		0040	9	0.	.0	5.9	*	1		0900	109	0.	.0	5.9	*	1		1720	209	0.	.0	5.8
1		0045	10	0.	.0	5.9	*	1		0905	110	0.	.0	5.9	*	1		1725	210	0.	.0	5.8
1		0050	11	0.	.0	5.9	*	1		0910	111	0.	.0	5.9	*	1		1730	211	0.	.0	5.8
1		0055	12	0.	.0	5.9	*	1		0915	112	0.	.0	5.9	*	1		1735	212	0.	.0	5.8
1		0100	13	0.	.0	5.9	*	1		0920	113	0.	.0	5.9	*	1		1740	213	0.	.0	5.8
1		0105	14	0.	.0	5.9	*	1		0925	114	0.	.0	5.9	*	1		1745	214	0.	.0	5.8
1		0110	15	0.	.0	5.9	*	1		0930	115	0.	.0	5.9	*	1		1750	215	0.	.0	5.8
1		0115	16	0.	.0	5.9	*	1		0935	116	0.	.0	5.9	*	1		1755	216	0.	.0	5.8
1		0120	17	0.	.0	5.9	*	1		0940	117	0.	.0	5.9	*	1		1800	217	0.	.0	5.8
1		0125	18	0.	.0	5.9	*	1		0945	118	0.	.0	5.9	*	1		1805	218	0.	.0	5.8
1		0130	19	0.	.0	5.9	*	1		0950	119	0.	.0	5.9	*	1		1810	219	0.	.0	5.8
1		0135	20	0.	.0	5.9	*	1		0955	120	0.	.0	5.9	*	1		1815	220	0.	.0	5.8
1		0140	21	0.	.0	5.9	*	1		1000	121	0.	.0	5.9	*	1		1820	221	0.	.0	5.8
1		0145	22	0.	.0	5.9	*	1		1005	122	0.	.0	5.9	*	1		1825	222	0.	.0	5.8
1		0150	23	1.	.0	5.9	*	1		1010	123	0.	.0	5.9	*	1		1830	223	0.	.0	5.8
1		0155	24	1.	.0	5.9	*	1		1015	124	0.	.0	5.9	*	1		1835	224	0.	.0	5.8
1		0200	25	1.	.0	5.9	*	1		1020	125	0.	.0	5.9	*	1		1840	225	0.	.0	5.8
1		0205	26	1.	.0	5.9	*	1		1025	126	0.	.0	5.9	*	1		1845	226	0.	.0	5.8
1		0210	27	1.	.0	5.9	*	1		1030	127	0.	.0	5.9	*	1		1850	227	0.	.0	5.8
1		0215	28	1.	.0	5.9	*	1		1035	128	0.	.0	5.9	*	1		1855	228	0.	.0	5.8
1		0220	29	1.	.0	5.9	*	1		1040	129	0.	.0	5.9	*	1		1900	229	0.	.0	5.8
1		0225	30	1.	.0	5.9	*	1		1045	130	0.	.0	5.9	*	1		1905	230	0.	.0	5.8
1		0230	31	1.	.0	5.9	*	1		1050	131	0.	.0	5.9	*	1		1910	231	0.	.0	5.8
1		0235	32	1.	.0	5.9	*	1		1055	132	0.	.0	5.9	*	1		1915	232	0.	.0	5.8
1		0240	33	1.	.0	5.9	*	1		1100	133	0.	.0	5.9	*	1		1920	233	0.	.0	5.8
1		0245	34	1.	.0	5.9	*	1		1105	134	0.	.0	5.9	*	1		1925	234	0.	.0	5.8
1		0250	35	1.	.0	5.9	*	1		1110	135	0.	.0	5.9	*	1		1930	235	0.	.0	5.8
1		0255	36	1.	.0	5.9	*	1		1115	136	0.	.0	5.9	*	1		1935	236	0.	.0	5.8
1		0300	37	1.	.0	5.9	*	1		1120	137	0.	.0	5.9	*	1		1940	237	0.	.0	5.8
1		0305	38	1.	.0	5.9	*	1		1125	138	0.	.0	5.9	*	1		1945	238	0.	.0	5.8
1		0310	39	1.	.0	5.9	*	1		1130	139	0.	.0	5.9	*	1		1950	239	0.	.0	5.8
1		0315	40	1.	.0	5.9	*	1		1135	140	0.	.0	5.9	*	1		1955	240	0.	.0	5.8
1		0320	41	1.	.0	5.9	*	1		1140	141	0.	.0	5.9	*	1		2000	241	0.	.0	5.8
1		0325	42	1.	.0	5.9	*	1		1145	142	0.	.0	5.9	*	1		2005	242	0.	.0	5.8
1		0330	43	1.	.0	5.9	*	1		1150	143	0.	.0	5.9	*	1		2010	243	0.	.0	5.8
1		0335	44	1.	.0	5.9	*	1		1155	144	0.	.0	5.8	*	1		2015	244	0.	.0	5.8
1		0340	45	1.	.0	5.9	*	1		1200	145	0.	.0	5.8	*	1		2020	245	0.	.0	5.8
1		0345	46	1.	.0	5.9	*	1		1205	146	0.	.0	5.8	*	1		2025	246	0.	.0	5.8

1	0350	47	1.	.0	6.0	*	1	1210	147	0.	.0	5.8	*	1	2030	247	0.	.0	5.8
1	0355	48	2.	.0	6.0	*	1	1215	148	0.	.0	5.8	*	1	2035	248	0.	.0	5.8
1	0400	49	2.	.0	6.0	*	1	1220	149	0.	.0	5.8	*	1	2040	249	0.	.0	5.8
1	0405	50	2.	.0	6.0	*	1	1225	150	0.	.0	5.8	*	1	2045	250	0.	.0	5.8
1	0410	51	3.	.0	6.1	*	1	1230	151	0.	.0	5.8	*	1	2050	251	0.	.0	5.8
1	0415	52	4.	.1	6.1	*	1	1235	152	0.	.0	5.8	*	1	2055	252	0.	.0	5.8
1	0420	53	6.	.1	6.3	*	1	1240	153	0.	.0	5.8	*	1	2100	253	0.	.0	5.8
1	0425	54	9.	.1	6.4	*	1	1245	154	0.	.0	5.8	*	1	2105	254	0.	.0	5.8
1	0430	55	12.	.1	6.5	*	1	1250	155	0.	.0	5.8	*	1	2110	255	0.	.0	5.8
1	0435	56	15.	.1	6.6	*	1	1255	156	0.	.0	5.8	*	1	2115	256	0.	.0	5.8
1	0440	57	17.	.2	6.7	*	1	1300	157	0.	.0	5.8	*	1	2120	257	0.	.0	5.8
1	0445	58	17.	.2	6.7	*	1	1305	158	0.	.0	5.8	*	1	2125	258	0.	.0	5.8
1	0450	59	18.	.2	6.7	*	1	1310	159	0.	.0	5.8	*	1	2130	259	0.	.0	5.8
1	0455	60	17.	.2	6.7	*	1	1315	160	0.	.0	5.8	*	1	2135	260	0.	.0	5.8
1	0500	61	17.	.2	6.7	*	1	1320	161	0.	.0	5.8	*	1	2140	261	0.	.0	5.8
1	0505	62	16.	.2	6.6	*	1	1325	162	0.	.0	5.8	*	1	2145	262	0.	.0	5.8
1	0510	63	15.	.1	6.6	*	1	1330	163	0.	.0	5.8	*	1	2150	263	0.	.0	5.8
1	0515	64	14.	.1	6.6	*	1	1335	164	0.	.0	5.8	*	1	2155	264	0.	.0	5.8
1	0520	65	13.	.1	6.5	*	1	1340	165	0.	.0	5.8	*	1	2200	265	0.	.0	5.8
1	0525	66	11.	.1	6.5	*	1	1345	166	0.	.0	5.8	*	1	2205	266	0.	.0	5.8
1	0530	67	10.	.1	6.5	*	1	1350	167	0.	.0	5.8	*	1	2210	267	0.	.0	5.8
1	0535	68	9.	.1	6.4	*	1	1355	168	0.	.0	5.8	*	1	2215	268	0.	.0	5.8
1	0540	69	8.	.1	6.4	*	1	1400	169	0.	.0	5.8	*	1	2220	269	0.	.0	5.8
1	0545	70	8.	.1	6.4	*	1	1405	170	0.	.0	5.8	*	1	2225	270	0.	.0	5.8
1	0550	71	7.	.1	6.4	*	1	1410	171	0.	.0	5.8	*	1	2230	271	0.	.0	5.8
1	0555	72	6.	.1	6.3	*	1	1415	172	0.	.0	5.8	*	1	2235	272	0.	.0	5.8
1	0600	73	6.	.1	6.3	*	1	1420	173	0.	.0	5.8	*	1	2240	273	0.	.0	5.8
1	0605	74	6.	.1	6.3	*	1	1425	174	0.	.0	5.8	*	1	2245	274	0.	.0	5.8
1	0610	75	6.	.1	6.3	*	1	1430	175	0.	.0	5.8	*	1	2250	275	0.	.0	5.8
1	0615	76	5.	.1	6.2	*	1	1435	176	0.	.0	5.8	*	1	2255	276	0.	.0	5.8
1	0620	77	5.	.1	6.2	*	1	1440	177	0.	.0	5.8	*	1	2300	277	0.	.0	5.8
1	0625	78	4.	.1	6.2	*	1	1445	178	0.	.0	5.8	*	1	2305	278	0.	.0	5.8
1	0630	79	4.	.1	6.2	*	1	1450	179	0.	.0	5.8	*	1	2310	279	0.	.0	5.8
1	0635	80	4.	.1	6.1	*	1	1455	180	0.	.0	5.8	*	1	2315	280	0.	.0	5.8
1	0640	81	3.	.0	6.1	*	1	1500	181	0.	.0	5.8	*	1	2320	281	0.	.0	5.8
1	0645	82	3.	.0	6.1	*	1	1505	182	0.	.0	5.8	*	1	2325	282	0.	.0	5.8
1	0650	83	3.	.0	6.1	*	1	1510	183	0.	.0	5.8	*	1	2330	283	0.	.0	5.8
1	0655	84	3.	.0	6.0	*	1	1515	184	0.	.0	5.8	*	1	2335	284	0.	.0	5.8
1	0700	85	2.	.0	6.0	*	1	1520	185	0.	.0	5.8	*	1	2340	285	0.	.0	5.8
1	0705	86	2.	.0	6.0	*	1	1525	186	0.	.0	5.8	*	1	2345	286	0.	.0	5.8
1	0710	87	2.	.0	6.0	*	1	1530	187	0.	.0	5.8	*	1	2350	287	0.	.0	5.8
1	0715	88	2.	.0	6.0	*	1	1535	188	0.	.0	5.8	*	1	2355	288	0.	.0	5.8
1	0720	89	2.	.0	6.0	*	1	1540	189	0.	.0	5.8	*	2	0000	289	0.	.0	5.8
1	0725	90	1.	.0	6.0	*	1	1545	190	0.	.0	5.8	*	2	0005	290	0.	.0	5.8
1	0730	91	1.	.0	5.9	*	1	1550	191	0.	.0	5.8	*	2	0010	291	0.	.0	5.8
1	0735	92	1.	.0	5.9	*	1	1555	192	0.	.0	5.8	*	2	0015	292	0.	.0	5.8
1	0740	93	1.	.0	5.9	*	1	1600	193	0.	.0	5.8	*	2	0020	293	0.	.0	5.8
1	0745	94	1.	.0	5.9	*	1	1605	194	0.	.0	5.8	*	2	0025	294	0.	.0	5.8
1	0750	95	1.	.0	5.9	*	1	1610	195	0.	.0	5.8	*	2	0030	295	0.	.0	5.8
1	0755	96	1.	.0	5.9	*	1	1615	196	0.	.0	5.8	*	2	0035	296	0.	.0	5.8
1	0800	97	1.	.0	5.9	*	1	1620	197	0.	.0	5.8	*	2	0040	297	0.	.0	5.8
1	0805	98	1.	.0	5.9	*	1	1625	198	0.	.0	5.8	*	2	0045	298	0.	.0	5.8
1	0810	99	0.	.0	5.9	*	1	1630	199	0.	.0	5.8	*	2	0050	299	0.	.0	5.8
1	0815	100	0.	.0	5.9	*	1	1635	200	0.	.0	5.8	*	2	0055	300	0.	.0	5.8
						*							*						

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PEAK FLOW TIME MAXIMUM AVERAGE FLOW

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                                        6-HR        24-HR       72-HR     24.92-HR
 (CFS)      (HR)
                                (CFS)
    18.     4.83                 5.          1.          1.          1.
                        (INCHES)      .096        .098        .098        .098
                         (AC-FT)       2.          2.          2.          2.

PEAK STORAGE   TIME                          MAXIMUM AVERAGE STORAGE
                                        6-HR        24-HR       72-HR     24.92-HR
 (AC-FT)      (HR)
      0.      4.83                 0.          0.          0.          0.

 PEAK STAGE    TIME                          MAXIMUM AVERAGE STAGE
                                        6-HR        24-HR       72-HR     24.92-HR
 (FEET)       (HR)
    6.68      4.83                 6.14        5.92        5.92        5.92

                         CUMULATIVE AREA =     .46 SQ MI


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          *            *
 93 KK    *   DEVELO   *     P RAINFALL FOR SUBBASIN G4
          *            *
          **************
                         6-HOUR RAINFALL PATTERN NO. 1.23 WAS USED TO FIND TC & R FOR THIS BASIN
                         THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .990
                        L =  .98  Kb = .064  Adj. Slope =   26.3

103 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

              SUBBASIN RUNOFF DATA

 97 BA          SUBBASIN CHARACTERISTICS
                      TAREA        .25  SUBBASIN AREA

                PRECIPITATION DATA

 98 PB                STORM       1.19  BASIN TOTAL PRECIPITATION

 11 PI            INCREMENTAL PRECIPITATION PATTERN
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00       .00       .01       .01       .01       .01       .01       .01       .03
                      .03       .03       .06       .06       .06       .14       .14       .14       .03       .03
                      .03       .01       .01       .01       .01       .01       .01       .00       .00       .00
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00
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 99 LG          GREEN AND AMPT LOSS RATE
                      STRTL        .43  STARTING LOSS
                        DTH        .25  MOISTURE DEFICIT
                       PSIF       3.50  WETTING FRONT SUCTION
                      XKSAT        .51  HYDRAULIC CONDUCTIVITY
                      RTIMP      10.47  PERCENT IMPERVIOUS AREA

100 UC          CLARK UNITGRAPH
                         TC       1.00  TIME OF CONCENTRATION
                          R        .80  STORAGE COEFFICIENT

101 UA          ACCUMULATED-AREA VS. TIME,  11 ORDINATES
                      .0      5.0     16.0     30.0     65.0     77.0     84.0     90.0     94.0     97.0
                   100.0

                                                  ***

                                          UNIT HYDROGRAPH PARAMETERS
                                   CLARK   TC=  1.00 HR,       R=   .80 HR
                                  SNYDER   TP=   .57 HR,      CP=   .43

                                          UNIT HYDROGRAPH
                                     56 END-OF-PERIOD ORDINATES
                     4.      16.      32.      57.      94.     119.     123.     121.     118.     113.
                   107.     101.      94.      84.      76.      69.      62.      56.      50.      45.
                    41.      37.      33.      30.      27.      24.      22.      20.      18.      16.
                    14.      13.      12.      10.       9.       8.       8.       7.       6.       6.
                     5.       5.       4.       4.       3.       3.       3.       2.       2.       2.
                     2.       2.       1.       1.       1.       1.
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HYDROGRAPH AT STATION DEVELO

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1		0000	1	.00	.00	.00	0.	*	1		1230	151	.00	.00	.00	0.
1		0005	2	.00	.00	.00	0.	*	1		1235	152	.00	.00	.00	0.
1		0010	3	.00	.00	.00	0.	*	1		1240	153	.00	.00	.00	0.
1		0015	4	.00	.00	.00	0.	*	1		1245	154	.00	.00	.00	0.
1		0020	5	.00	.00	.00	0.	*	1		1250	155	.00	.00	.00	0.
1		0025	6	.00	.00	.00	0.	*	1		1255	156	.00	.00	.00	0.
1		0030	7	.00	.00	.00	0.	*	1		1300	157	.00	.00	.00	0.
1		0035	8	.00	.00	.00	0.	*	1		1305	158	.00	.00	.00	0.
1		0040	9	.00	.00	.00	0.	*	1		1310	159	.00	.00	.00	0.
1		0045	10	.00	.00	.00	0.	*	1		1315	160	.00	.00	.00	0.
1		0050	11	.00	.00	.00	0.	*	1		1320	161	.00	.00	.00	0.
1		0055	12	.00	.00	.00	0.	*	1		1325	162	.00	.00	.00	0.
1		0100	13	.00	.00	.00	0.	*	1		1330	163	.00	.00	.00	0.
1		0105	14	.00	.00	.00	0.	*	1		1335	164	.00	.00	.00	0.
1		0110	15	.00	.00	.00	0.	*	1		1340	165	.00	.00	.00	0.
1		0115	16	.00	.00	.00	0.	*	1		1345	166	.00	.00	.00	0.
1		0120	17	.00	.00	.00	0.	*	1		1350	167	.00	.00	.00	0.
1		0125	18	.00	.00	.00	0.	*	1		1355	168	.00	.00	.00	0.
1		0130	19	.00	.00	.00	0.	*	1		1400	169	.00	.00	.00	0.
1		0135	20	.00	.00	.00	1.	*	1		1405	170	.00	.00	.00	0.

1	0140	21	.00	.00	.00	1.	*	1	1410	171	.00	.00	.00	0.
1	0145	22	.00	.00	.00	1.	*	1	1415	172	.00	.00	.00	0.
1	0150	23	.00	.00	.00	1.	*	1	1420	173	.00	.00	.00	0.
1	0155	24	.00	.00	.00	1.	*	1	1425	174	.00	.00	.00	0.
1	0200	25	.00	.00	.00	1.	*	1	1430	175	.00	.00	.00	0.
1	0205	26	.00	.00	.00	1.	*	1	1435	176	.00	.00	.00	0.
1	0210	27	.00	.00	.00	1.	*	1	1440	177	.00	.00	.00	0.
1	0215	28	.00	.00	.00	1.	*	1	1445	178	.00	.00	.00	0.
1	0220	29	.01	.00	.00	1.	*	1	1450	179	.00	.00	.00	0.
1	0225	30	.01	.00	.00	1.	*	1	1455	180	.00	.00	.00	0.
1	0230	31	.01	.00	.00	1.	*	1	1500	181	.00	.00	.00	0.
1	0235	32	.00	.00	.00	1.	*	1	1505	182	.00	.00	.00	0.
1	0240	33	.00	.00	.00	1.	*	1	1510	183	.00	.00	.00	0.
1	0245	34	.00	.00	.00	1.	*	1	1515	184	.00	.00	.00	0.
1	0250	35	.01	.01	.00	1.	*	1	1520	185	.00	.00	.00	0.
1	0255	36	.01	.01	.00	1.	*	1	1525	186	.00	.00	.00	0.
1	0300	37	.01	.01	.00	1.	*	1	1530	187	.00	.00	.00	0.
1	0305	38	.01	.01	.00	1.	*	1	1535	188	.00	.00	.00	0.
1	0310	39	.01	.01	.00	1.	*	1	1540	189	.00	.00	.00	0.
1	0315	40	.01	.01	.00	1.	*	1	1545	190	.00	.00	.00	0.
1	0320	41	.03	.03	.00	1.	*	1	1550	191	.00	.00	.00	0.
1	0325	42	.03	.03	.00	1.	*	1	1555	192	.00	.00	.00	0.
1	0330	43	.03	.03	.00	1.	*	1	1600	193	.00	.00	.00	0.
1	0335	44	.07	.06	.01	1.	*	1	1605	194	.00	.00	.00	0.
1	0340	45	.07	.06	.01	2.	*	1	1610	195	.00	.00	.00	0.
1	0345	46	.07	.06	.01	2.	*	1	1615	196	.00	.00	.00	0.
1	0350	47	.16	.14	.02	3.	*	1	1620	197	.00	.00	.00	0.
1	0355	48	.16	.14	.02	4.	*	1	1625	198	.00	.00	.00	0.
1	0400	49	.16	.12	.04	5.	*	1	1630	199	.00	.00	.00	0.
1	0405	50	.04	.03	.00	7.	*	1	1635	200	.00	.00	.00	0.
1	0410	51	.04	.03	.00	8.	*	1	1640	201	.00	.00	.00	0.
1	0415	52	.04	.03	.00	11.	*	1	1645	202	.00	.00	.00	0.
1	0420	53	.01	.01	.00	13.	*	1	1650	203	.00	.00	.00	0.
1	0425	54	.01	.01	.00	14.	*	1	1655	204	.00	.00	.00	0.
1	0430	55	.01	.01	.00	14.	*	1	1700	205	.00	.00	.00	0.
1	0435	56	.01	.01	.00	14.	*	1	1705	206	.00	.00	.00	0.
1	0440	57	.01	.01	.00	13.	*	1	1710	207	.00	.00	.00	0.
1	0445	58	.01	.01	.00	13.	*	1	1715	208	.00	.00	.00	0.
1	0450	59	.00	.00	.00	12.	*	1	1720	209	.00	.00	.00	0.
1	0455	60	.00	.00	.00	12.	*	1	1725	210	.00	.00	.00	0.
1	0500	61	.00	.00	.00	11.	*	1	1730	211	.00	.00	.00	0.
1	0505	62	.00	.00	.00	10.	*	1	1735	212	.00	.00	.00	0.
1	0510	63	.00	.00	.00	9.	*	1	1740	213	.00	.00	.00	0.
1	0515	64	.00	.00	.00	8.	*	1	1745	214	.00	.00	.00	0.
1	0520	65	.00	.00	.00	8.	*	1	1750	215	.00	.00	.00	0.
1	0525	66	.00	.00	.00	7.	*	1	1755	216	.00	.00	.00	0.
1	0530	67	.00	.00	.00	6.	*	1	1800	217	.00	.00	.00	0.
1	0535	68	.00	.00	.00	6.	*	1	1805	218	.00	.00	.00	0.
1	0540	69	.00	.00	.00	5.	*	1	1810	219	.00	.00	.00	0.
1	0545	70	.00	.00	.00	5.	*	1	1815	220	.00	.00	.00	0.
1	0550	71	.00	.00	.00	4.	*	1	1820	221	.00	.00	.00	0.
1	0555	72	.00	.00	.00	4.	*	1	1825	222	.00	.00	.00	0.
1	0600	73	.00	.00	.00	4.	*	1	1830	223	.00	.00	.00	0.
1	0605	74	.00	.00	.00	3.	*	1	1835	224	.00	.00	.00	0.
1	0610	75	.00	.00	.00	3.	*	1	1840	225	.00	.00	.00	0.
1	0615	76	.00	.00	.00	3.	*	1	1845	226	.00	.00	.00	0.
1	0620	77	.00	.00	.00	3.	*	1	1850	227	.00	.00	.00	0.
1	0625	78	.00	.00	.00	2.	*	1	1855	228	.00	.00	.00	0.

1	0630	79	.00	.00	.00	2.	*	1	1900	229	.00	.00	.00	0.
1	0635	80	.00	.00	.00	2.	*	1	1905	230	.00	.00	.00	0.
1	0640	81	.00	.00	.00	2.	*	1	1910	231	.00	.00	.00	0.
1	0645	82	.00	.00	.00	2.	*	1	1915	232	.00	.00	.00	0.
1	0650	83	.00	.00	.00	2.	*	1	1920	233	.00	.00	.00	0.
1	0655	84	.00	.00	.00	1.	*	1	1925	234	.00	.00	.00	0.
1	0700	85	.00	.00	.00	1.	*	1	1930	235	.00	.00	.00	0.
1	0705	86	.00	.00	.00	1.	*	1	1935	236	.00	.00	.00	0.
1	0710	87	.00	.00	.00	1.	*	1	1940	237	.00	.00	.00	0.
1	0715	88	.00	.00	.00	1.	*	1	1945	238	.00	.00	.00	0.
1	0720	89	.00	.00	.00	1.	*	1	1950	239	.00	.00	.00	0.
1	0725	90	.00	.00	.00	1.	*	1	1955	240	.00	.00	.00	0.
1	0730	91	.00	.00	.00	1.	*	1	2000	241	.00	.00	.00	0.
1	0735	92	.00	.00	.00	1.	*	1	2005	242	.00	.00	.00	0.
1	0740	93	.00	.00	.00	1.	*	1	2010	243	.00	.00	.00	0.
1	0745	94	.00	.00	.00	0.	*	1	2015	244	.00	.00	.00	0.
1	0750	95	.00	.00	.00	0.	*	1	2020	245	.00	.00	.00	0.
1	0755	96	.00	.00	.00	0.	*	1	2025	246	.00	.00	.00	0.
1	0800	97	.00	.00	.00	0.	*	1	2030	247	.00	.00	.00	0.
1	0805	98	.00	.00	.00	0.	*	1	2035	248	.00	.00	.00	0.
1	0810	99	.00	.00	.00	0.	*	1	2040	249	.00	.00	.00	0.
1	0815	100	.00	.00	.00	0.	*	1	2045	250	.00	.00	.00	0.
1	0820	101	.00	.00	.00	0.	*	1	2050	251	.00	.00	.00	0.
1	0825	102	.00	.00	.00	0.	*	1	2055	252	.00	.00	.00	0.
1	0830	103	.00	.00	.00	0.	*	1	2100	253	.00	.00	.00	0.
1	0835	104	.00	.00	.00	0.	*	1	2105	254	.00	.00	.00	0.
1	0840	105	.00	.00	.00	0.	*	1	2110	255	.00	.00	.00	0.
1	0845	106	.00	.00	.00	0.	*	1	2115	256	.00	.00	.00	0.
1	0850	107	.00	.00	.00	0.	*	1	2120	257	.00	.00	.00	0.
1	0855	108	.00	.00	.00	0.	*	1	2125	258	.00	.00	.00	0.
1	0900	109	.00	.00	.00	0.	*	1	2130	259	.00	.00	.00	0.
1	0905	110	.00	.00	.00	0.	*	1	2135	260	.00	.00	.00	0.
1	0910	111	.00	.00	.00	0.	*	1	2140	261	.00	.00	.00	0.
1	0915	112	.00	.00	.00	0.	*	1	2145	262	.00	.00	.00	0.
1	0920	113	.00	.00	.00	0.	*	1	2150	263	.00	.00	.00	0.
1	0925	114	.00	.00	.00	0.	*	1	2155	264	.00	.00	.00	0.
1	0930	115	.00	.00	.00	0.	*	1	2200	265	.00	.00	.00	0.
1	0935	116	.00	.00	.00	0.	*	1	2205	266	.00	.00	.00	0.
1	0940	117	.00	.00	.00	0.	*	1	2210	267	.00	.00	.00	0.
1	0945	118	.00	.00	.00	0.	*	1	2215	268	.00	.00	.00	0.
1	0950	119	.00	.00	.00	0.	*	1	2220	269	.00	.00	.00	0.
1	0955	120	.00	.00	.00	0.	*	1	2225	270	.00	.00	.00	0.
1	1000	121	.00	.00	.00	0.	*	1	2230	271	.00	.00	.00	0.
1	1005	122	.00	.00	.00	0.	*	1	2235	272	.00	.00	.00	0.
1	1010	123	.00	.00	.00	0.	*	1	2240	273	.00	.00	.00	0.
1	1015	124	.00	.00	.00	0.	*	1	2245	274	.00	.00	.00	0.
1	1020	125	.00	.00	.00	0.	*	1	2250	275	.00	.00	.00	0.
1	1025	126	.00	.00	.00	0.	*	1	2255	276	.00	.00	.00	0.
1	1030	127	.00	.00	.00	0.	*	1	2300	277	.00	.00	.00	0.
1	1035	128	.00	.00	.00	0.	*	1	2305	278	.00	.00	.00	0.
1	1040	129	.00	.00	.00	0.	*	1	2310	279	.00	.00	.00	0.
1	1045	130	.00	.00	.00	0.	*	1	2315	280	.00	.00	.00	0.
1	1050	131	.00	.00	.00	0.	*	1	2320	281	.00	.00	.00	0.
1	1055	132	.00	.00	.00	0.	*	1	2325	282	.00	.00	.00	0.
1	1100	133	.00	.00	.00	0.	*	1	2330	283	.00	.00	.00	0.
1	1105	134	.00	.00	.00	0.	*	1	2335	284	.00	.00	.00	0.
1	1110	135	.00	.00	.00	0.	*	1	2340	285	.00	.00	.00	0.
1	1115	136	.00	.00	.00	0.	*	1	2345	286	.00	.00	.00	0.

1	1120	137	.00	.00	.00	0.	*	1	2350	287	.00	.00	.00	0.
1	1125	138	.00	.00	.00	0.	*	1	2355	288	.00	.00	.00	0.
1	1130	139	.00	.00	.00	0.	*	2	0000	289	.00	.00	.00	0.
1	1135	140	.00	.00	.00	0.	*	2	0005	290	.00	.00	.00	0.
1	1140	141	.00	.00	.00	0.	*	2	0010	291	.00	.00	.00	0.
1	1145	142	.00	.00	.00	0.	*	2	0015	292	.00	.00	.00	0.
1	1150	143	.00	.00	.00	0.	*	2	0020	293	.00	.00	.00	0.
1	1155	144	.00	.00	.00	0.	*	2	0025	294	.00	.00	.00	0.
1	1200	145	.00	.00	.00	0.	*	2	0030	295	.00	.00	.00	0.
1	1205	146	.00	.00	.00	0.	*	2	0035	296	.00	.00	.00	0.
1	1210	147	.00	.00	.00	0.	*	2	0040	297	.00	.00	.00	0.
1	1215	148	.00	.00	.00	0.	*	2	0045	298	.00	.00	.00	0.
1	1220	149	.00	.00	.00	0.	*	2	0050	299	.00	.00	.00	0.
1	1225	150	.00	.00	.00	0.	*	2	0055	300	.00	.00	.00	0.
							*							

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TOTAL RAINFALL = 1.19, TOTAL LOSS = 1.04, TOTAL EXCESS = .15

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
14.	4.50		4.	1.	1.	1.
		(INCHES)	.145	.150	.150	.150
		(AC-FT)	2.	2.	2.	2.

CUMULATIVE AREA = .25 SQ MI

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          **************
          *            *
104 KK    *    Node9   *
          *            *
          **************
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Route water through detention basin to remove subdivision storage

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111 KO        OUTPUT CONTROL VARIABLES
                    IPRNT          2  PRINT CONTROL
                    IPLOT          0  PLOT CONTROL
                    QSCAL         0.  HYDROGRAPH PLOT SCALE

            HYDROGRAPH ROUTING DATA

106 RS        STORAGE ROUTING
                    NSTPS          1  NUMBER OF SUBREACHES
                     ITYP       STOR  TYPE OF INITIAL CONDITION
                   RSVRIC        .00  INITIAL CONDITION
                        X        .00 WORKING R AND D COEFFICIENT

107 SV          STORAGE         .0      7.6      7.6      7.7      7.8

108 SE        ELEVATION        .00    10.00    11.00    12.00    13.00
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109 SL          LOW-LEVEL OUTLET
                     ELEVL        .00  ELEVATION AT CENTER OF OUTLET
                     CAREA       1.00  CROSS-SECTIONAL AREA
                      COQL        .60  COEFFICIENT
                      EXPL        .50  EXPONENT OF HEAD

110 SS          SPILLWAY
                      CREL      10.00  SPILLWAY CREST ELEVATION
                     SPWID      50.00  SPILLWAY WIDTH
                      COQW       2.70  WEIR COEFFICIENT
                      EXPW       1.50  EXPONENT OF HEAD
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COMPUTED OUTFLOW-ELEVATION DATA

OUTFLOW	.00	3.64	4.02	4.49	5.09	5.87	6.94	8.48	10.89	15.22
ELEVATION	.00	.57	.70	.87	1.12	1.49	2.08	3.10	5.12	10.00
OUTFLOW	15.98	21.07	34.65	60.91	104.04	168.20	257.58	376.36	528.72	718.83
ELEVATION	10.03	10.12	10.27	10.48	10.75	11.08	11.47	11.92	12.43	13.00

COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	.43	.53	.66	.85	1.13	1.58	2.35	3.88	7.58
OUTFLOW	.00	3.64	4.02	4.49	5.09	5.87	6.94	8.48	10.89	15.22
ELEVATION	.00	.57	.70	.87	1.12	1.49	2.08	3.10	5.12	10.00
STORAGE	7.58	7.58	7.59	7.59	7.60	7.60	7.61	7.65	7.69	7.70
OUTFLOW	15.98	21.07	34.65	60.91	104.04	150.96	168.20	257.58	376.36	398.51
ELEVATION	10.03	10.12	10.27	10.48	10.75	11.00	11.08	11.47	11.92	12.00
STORAGE	7.74	7.80								
OUTFLOW	528.72	718.83								
ELEVATION	12.43	13.00								

** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 15. TO 719.
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

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HYDROGRAPH AT STATION Node9

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DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	.0	*	1		0820	101	3.	.3	.5	*	1		1640	201	0.	.0	.0
1		0005	2	0.	.0	.0	*	1		0825	102	3.	.3	.4	*	1		1645	202	0.	.0	.0
1		0010	3	0.	.0	.0	*	1		0830	103	3.	.3	.4	*	1		1650	203	0.	.0	.0
1		0015	4	0.	.0	.0	*	1		0835	104	2.	.3	.4	*	1		1655	204	0.	.0	.0
1		0020	5	0.	.0	.0	*	1		0840	105	2.	.3	.4	*	1		1700	205	0.	.0	.0
1		0025	6	0.	.0	.0	*	1		0845	106	2.	.3	.3	*	1		1705	206	0.	.0	.0
1		0030	7	0.	.0	.0	*	1		0850	107	2.	.2	.3	*	1		1710	207	0.	.0	.0
1		0035	8	0.	.0	.0	*	1		0855	108	2.	.2	.3	*	1		1715	208	0.	.0	.0

1	0040	9	0.	.0	.0	*	1	0900	109	2.	.2	.3	*	1	1720	209	0.	.0	.0
1	0045	10	0.	.0	.0	*	1	0905	110	2.	.2	.3	*	1	1725	210	0.	.0	.0
1	0050	11	0.	.0	.0	*	1	0910	111	2.	.2	.3	*	1	1730	211	0.	.0	.0
1	0055	12	0.	.0	.0	*	1	0915	112	2.	.2	.2	*	1	1735	212	0.	.0	.0
1	0100	13	0.	.0	.0	*	1	0920	113	1.	.2	.2	*	1	1740	213	0.	.0	.0
1	0105	14	0.	.0	.0	*	1	0925	114	1.	.2	.2	*	1	1745	214	0.	.0	.0
1	0110	15	0.	.0	.0	*	1	0930	115	1.	.2	.2	*	1	1750	215	0.	.0	.0
1	0115	16	0.	.0	.0	*	1	0935	116	1.	.1	.2	*	1	1755	216	0.	.0	.0
1	0120	17	0.	.0	.0	*	1	0940	117	1.	.1	.2	*	1	1800	217	0.	.0	.0
1	0125	18	0.	.0	.0	*	1	0945	118	1.	.1	.2	*	1	1805	218	0.	.0	.0
1	0130	19	0.	.0	.0	*	1	0950	119	1.	.1	.2	*	1	1810	219	0.	.0	.0
1	0135	20	0.	.0	.0	*	1	0955	120	1.	.1	.2	*	1	1815	220	0.	.0	.0
1	0140	21	0.	.0	.0	*	1	1000	121	1.	.1	.1	*	1	1820	221	0.	.0	.0
1	0145	22	0.	.0	.0	*	1	1005	122	1.	.1	.1	*	1	1825	222	0.	.0	.0
1	0150	23	0.	.0	.0	*	1	1010	123	1.	.1	.1	*	1	1830	223	0.	.0	.0
1	0155	24	0.	.0	.0	*	1	1015	124	1.	.1	.1	*	1	1835	224	0.	.0	.0
1	0200	25	0.	.0	.0	*	1	1020	125	1.	.1	.1	*	1	1840	225	0.	.0	.0
1	0205	26	0.	.0	.0	*	1	1025	126	1.	.1	.1	*	1	1845	226	0.	.0	.0
1	0210	27	0.	.0	.1	*	1	1030	127	1.	.1	.1	*	1	1850	227	0.	.0	.0
1	0215	28	0.	.0	.1	*	1	1035	128	1.	.1	.1	*	1	1855	228	0.	.0	.0
1	0220	29	0.	.0	.1	*	1	1040	129	1.	.1	.1	*	1	1900	229	0.	.0	.0
1	0225	30	0.	.0	.1	*	1	1045	130	1.	.1	.1	*	1	1905	230	0.	.0	.0
1	0230	31	0.	.0	.1	*	1	1050	131	1.	.1	.1	*	1	1910	231	0.	.0	.0
1	0235	32	0.	.0	.1	*	1	1055	132	0.	.1	.1	*	1	1915	232	0.	.0	.0
1	0240	33	0.	.0	.1	*	1	1100	133	0.	.1	.1	*	1	1920	233	0.	.0	.0
1	0245	34	0.	.1	.1	*	1	1105	134	0.	.1	.1	*	1	1925	234	0.	.0	.0
1	0250	35	0.	.1	.1	*	1	1110	135	0.	.0	.1	*	1	1930	235	0.	.0	.0
1	0255	36	0.	.1	.1	*	1	1115	136	0.	.0	.1	*	1	1935	236	0.	.0	.0
1	0300	37	0.	.1	.1	*	1	1120	137	0.	.0	.1	*	1	1940	237	0.	.0	.0
1	0305	38	0.	.1	.1	*	1	1125	138	0.	.0	.1	*	1	1945	238	0.	.0	.0
1	0310	39	1.	.1	.1	*	1	1130	139	0.	.0	.1	*	1	1950	239	0.	.0	.0
1	0315	40	1.	.1	.1	*	1	1135	140	0.	.0	.0	*	1	1955	240	0.	.0	.0
1	0320	41	1.	.1	.1	*	1	1140	141	0.	.0	.0	*	1	2000	241	0.	.0	.0
1	0325	42	1.	.1	.1	*	1	1145	142	0.	.0	.0	*	1	2005	242	0.	.0	.0
1	0330	43	1.	.1	.1	*	1	1150	143	0.	.0	.0	*	1	2010	243	0.	.0	.0
1	0335	44	1.	.1	.1	*	1	1155	144	0.	.0	.0	*	1	2015	244	0.	.0	.0
1	0340	45	1.	.1	.1	*	1	1200	145	0.	.0	.0	*	1	2020	245	0.	.0	.0
1	0345	46	1.	.1	.1	*	1	1205	146	0.	.0	.0	*	1	2025	246	0.	.0	.0
1	0350	47	1.	.1	.1	*	1	1210	147	0.	.0	.0	*	1	2030	247	0.	.0	.0
1	0355	48	1.	.1	.2	*	1	1215	148	0.	.0	.0	*	1	2035	248	0.	.0	.0
1	0400	49	1.	.1	.2	*	1	1220	149	0.	.0	.0	*	1	2040	249	0.	.0	.0
1	0405	50	1.	.2	.2	*	1	1225	150	0.	.0	.0	*	1	2045	250	0.	.0	.0
1	0410	51	2.	.2	.3	*	1	1230	151	0.	.0	.0	*	1	2050	251	0.	.0	.0
1	0415	52	2.	.3	.4	*	1	1235	152	0.	.0	.0	*	1	2055	252	0.	.0	.0
1	0420	53	3.	.3	.4	*	1	1240	153	0.	.0	.0	*	1	2100	253	0.	.0	.0
1	0425	54	3.	.4	.5	*	1	1245	154	0.	.0	.0	*	1	2105	254	0.	.0	.0
1	0430	55	4.	.5	.6	*	1	1250	155	0.	.0	.0	*	1	2110	255	0.	.0	.0
1	0435	56	4.	.5	.7	*	1	1255	156	0.	.0	.0	*	1	2115	256	0.	.0	.0
1	0440	57	4.	.6	.8	*	1	1300	157	0.	.0	.0	*	1	2120	257	0.	.0	.0
1	0445	58	5.	.7	.9	*	1	1305	158	0.	.0	.0	*	1	2125	258	0.	.0	.0
1	0450	59	5.	.7	1.0	*	1	1310	159	0.	.0	.0	*	1	2130	259	0.	.0	.0
1	0455	60	5.	.8	1.0	*	1	1315	160	0.	.0	.0	*	1	2135	260	0.	.0	.0
1	0500	61	5.	.8	1.1	*	1	1320	161	0.	.0	.0	*	1	2140	261	0.	.0	.0
1	0505	62	5.	.8	1.1	*	1	1325	162	0.	.0	.0	*	1	2145	262	0.	.0	.0
1	0510	63	5.	.9	1.2	*	1	1330	163	0.	.0	.0	*	1	2150	263	0.	.0	.0
1	0515	64	5.	.9	1.2	*	1	1335	164	0.	.0	.0	*	1	2155	264	0.	.0	.0
1	0520	65	5.	.9	1.2	*	1	1340	165	0.	.0	.0	*	1	2200	265	0.	.0	.0
1	0525	66	5.	.9	1.2	*	1	1345	166	0.	.0	.0	*	1	2205	266	0.	.0	.0

1	0530	67	5.	.9	1.2	*	1	1350	167	0.	.0	.0	*	1	2210	267	0.	.0	.0
1	0535	68	5.	.9	1.3	*	1	1355	168	0.	.0	.0	*	1	2215	268	0.	.0	.0
1	0540	69	5.	.9	1.3	*	1	1400	169	0.	.0	.0	*	1	2220	269	0.	.0	.0
1	0545	70	5.	.9	1.2	*	1	1405	170	0.	.0	.0	*	1	2225	270	0.	.0	.0
1	0550	71	5.	.9	1.2	*	1	1410	171	0.	.0	.0	*	1	2230	271	0.	.0	.0
1	0555	72	5.	.9	1.2	*	1	1415	172	0.	.0	.0	*	1	2235	272	0.	.0	.0
1	0600	73	5.	.9	1.2	*	1	1420	173	0.	.0	.0	*	1	2240	273	0.	.0	.0
1	0605	74	5.	.9	1.2	*	1	1425	174	0.	.0	.0	*	1	2245	274	0.	.0	.0
1	0610	75	5.	.9	1.2	*	1	1430	175	0.	.0	.0	*	1	2250	275	0.	.0	.0
1	0615	76	5.	.9	1.2	*	1	1435	176	0.	.0	.0	*	1	2255	276	0.	.0	.0
1	0620	77	5.	.9	1.1	*	1	1440	177	0.	.0	.0	*	1	2300	277	0.	.0	.0
1	0625	78	5.	.9	1.1	*	1	1445	178	0.	.0	.0	*	1	2305	278	0.	.0	.0
1	0630	79	5.	.8	1.1	*	1	1450	179	0.	.0	.0	*	1	2310	279	0.	.0	.0
1	0635	80	5.	.8	1.1	*	1	1455	180	0.	.0	.0	*	1	2315	280	0.	.0	.0
1	0640	81	5.	.8	1.0	*	1	1500	181	0.	.0	.0	*	1	2320	281	0.	.0	.0
1	0645	82	5.	.8	1.0	*	1	1505	182	0.	.0	.0	*	1	2325	282	0.	.0	.0
1	0650	83	5.	.8	1.0	*	1	1510	183	0.	.0	.0	*	1	2330	283	0.	.0	.0
1	0655	84	5.	.7	1.0	*	1	1515	184	0.	.0	.0	*	1	2335	284	0.	.0	.0
1	0700	85	5.	.7	.9	*	1	1520	185	0.	.0	.0	*	1	2340	285	0.	.0	.0
1	0705	86	5.	.7	.9	*	1	1525	186	0.	.0	.0	*	1	2345	286	0.	.0	.0
1	0710	87	4.	.7	.9	*	1	1530	187	0.	.0	.0	*	1	2350	287	0.	.0	.0
1	0715	88	4.	.6	.8	*	1	1535	188	0.	.0	.0	*	1	2355	288	0.	.0	.0
1	0720	89	4.	.6	.8	*	1	1540	189	0.	.0	.0	*	2	0000	289	0.	.0	.0
1	0725	90	4.	.6	.8	*	1	1545	190	0.	.0	.0	*	2	0005	290	0.	.0	.0
1	0730	91	4.	.6	.7	*	1	1550	191	0.	.0	.0	*	2	0010	291	0.	.0	.0
1	0735	92	4.	.5	.7	*	1	1555	192	0.	.0	.0	*	2	0015	292	0.	.0	.0
1	0740	93	4.	.5	.7	*	1	1600	193	0.	.0	.0	*	2	0020	293	0.	.0	.0
1	0745	94	4.	.5	.6	*	1	1605	194	0.	.0	.0	*	2	0025	294	0.	.0	.0
1	0750	95	4.	.5	.6	*	1	1610	195	0.	.0	.0	*	2	0030	295	0.	.0	.0
1	0755	96	4.	.4	.6	*	1	1615	196	0.	.0	.0	*	2	0035	296	0.	.0	.0
1	0800	97	4.	.4	.6	*	1	1620	197	0.	.0	.0	*	2	0040	297	0.	.0	.0
1	0805	98	3.	.4	.5	*	1	1625	198	0.	.0	.0	*	2	0045	298	0.	.0	.0
1	0810	99	3.	.4	.5	*	1	1630	199	0.	.0	.0	*	2	0050	299	0.	.0	.0
1	0815	100	3.	.4	.5	*	1	1635	200	0.	.0	.0	*	2	0055	300	0.	.0	.0
						*							*						

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
5.	5.67		4.	1.	1.	1.
		(INCHES)	.134	.150	.150	.150
		(AC-FT)	2.	2.	2.	2.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
1.	5.67	1.	0.	0.	0.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
1.25	5.67	.71	.20	.19	.19

CUMULATIVE AREA = .25 SQ MI

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          *            *
112 KK    *   Node15   *
          *            *
          **************
                    confluence g1-g2-g3 with g4

115 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

114 HC          HYDROGRAPH COMBINATION
                      ICOMP          2  NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION Node15
SUM OF 2 HYDROGRAPHS

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	10.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	10.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	10.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	9.	1		1245	154	0.	1		1900	229	0.
1		0020	5	0.	1		0635	80	9.	1		1250	155	0.	1		1905	230	0.
1		0025	6	0.	1		0640	81	8.	1		1255	156	0.	1		1910	231	0.
1		0030	7	0.	1		0645	82	8.	1		1300	157	0.	1		1915	232	0.
1		0035	8	0.	1		0650	83	8.	1		1305	158	0.	1		1920	233	0.
1		0040	9	0.	1		0655	84	7.	1		1310	159	0.	1		1925	234	0.
1		0045	10	0.	1		0700	85	7.	1		1315	160	0.	1		1930	235	0.
1		0050	11	0.	1		0705	86	7.	1		1320	161	0.	1		1935	236	0.
1		0055	12	0.	1		0710	87	6.	1		1325	162	0.	1		1940	237	0.
1		0100	13	0.	1		0715	88	6.	1		1330	163	0.	1		1945	238	0.
1		0105	14	0.	1		0720	89	6.	1		1335	164	0.	1		1950	239	0.
1		0110	15	0.	1		0725	90	6.	1		1340	165	0.	1		1955	240	0.
1		0115	16	0.	1		0730	91	5.	1		1345	166	0.	1		2000	241	0.
1		0120	17	0.	1		0735	92	5.	1		1350	167	0.	1		2005	242	0.
1		0125	18	1.	1		0740	93	5.	1		1355	168	0.	1		2010	243	0.
1		0130	19	1.	1		0745	94	5.	1		1400	169	0.	1		2015	244	0.
1		0135	20	1.	1		0750	95	5.	1		1405	170	0.	1		2020	245	0.
1		0140	21	1.	1		0755	96	4.	1		1410	171	0.	1		2025	246	0.
1		0145	22	1.	1		0800	97	4.	1		1415	172	0.	1		2030	247	0.
1		0150	23	1.	1		0805	98	4.	1		1420	173	0.	1		2035	248	0.
1		0155	24	1.	1		0810	99	4.	1		1425	174	0.	1		2040	249	0.
1		0200	25	1.	1		0815	100	3.	1		1430	175	0.	1		2045	250	0.
1		0205	26	1.	1		0820	101	3.	1		1435	176	0.	1		2050	251	0.
1		0210	27	1.	1		0825	102	3.	1		1440	177	0.	1		2055	252	0.

1	0215	28	1.	*	1	0830	103	3.	*	1	1445	178	0.	*	1	2100	253	0.
1	0220	29	1.	*	1	0835	104	3.	*	1	1450	179	0.	*	1	2105	254	0.
1	0225	30	1.	*	1	0840	105	2.	*	1	1455	180	0.	*	1	2110	255	0.
1	0230	31	1.	*	1	0845	106	2.	*	1	1500	181	0.	*	1	2115	256	0.
1	0235	32	1.	*	1	0850	107	2.	*	1	1505	182	0.	*	1	2120	257	0.
1	0240	33	1.	*	1	0855	108	2.	*	1	1510	183	0.	*	1	2125	258	0.
1	0245	34	1.	*	1	0900	109	2.	*	1	1515	184	0.	*	1	2130	259	0.
1	0250	35	1.	*	1	0905	110	2.	*	1	1520	185	0.	*	1	2135	260	0.
1	0255	36	1.	*	1	0910	111	2.	*	1	1525	186	0.	*	1	2140	261	0.
1	0300	37	1.	*	1	0915	112	2.	*	1	1530	187	0.	*	1	2145	262	0.
1	0305	38	1.	*	1	0920	113	1.	*	1	1535	188	0.	*	1	2150	263	0.
1	0310	39	1.	*	1	0925	114	1.	*	1	1540	189	0.	*	1	2155	264	0.
1	0315	40	1.	*	1	0930	115	1.	*	1	1545	190	0.	*	1	2200	265	0.
1	0320	41	1.	*	1	0935	116	1.	*	1	1550	191	0.	*	1	2205	266	0.
1	0325	42	1.	*	1	0940	117	1.	*	1	1555	192	0.	*	1	2210	267	0.
1	0330	43	2.	*	1	0945	118	1.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	2.	*	1	0950	119	1.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	2.	*	1	0955	120	1.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	2.	*	1	1000	121	1.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	2.	*	1	1005	122	1.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	3.	*	1	1010	123	1.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	3.	*	1	1015	124	1.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	4.	*	1	1020	125	1.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	5.	*	1	1025	126	1.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	6.	*	1	1030	127	1.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	8.	*	1	1035	128	1.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	12.	*	1	1040	129	1.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	16.	*	1	1045	130	1.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	19.	*	1	1050	131	1.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	21.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	22.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	22.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	22.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	22.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	21.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	20.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	19.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	18.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	17.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	16.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	15.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	14.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	13.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	12.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	12.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	11.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	11.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	11.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)					
		(CFS)				
22.	4.83		8.	2.	2.	2.
		(INCHES)	.107	.116	.116	.116
		(AC-FT)	4.	4.	4.	4.

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                    CUMULATIVE AREA =     .71 SQ MI


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          *            *
116 KK    *   Develo   *     pe rainfall for phase 2 area
          *            *
          **************
                         6-HOUR RAINFALL PATTERN NO. 1.00 WAS USED TO FIND TC & R FOR THIS BASIN
                         THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .995
                        L =  .072  Kb = .064  Adj. Slope =   9.9

126 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

              SUBBASIN RUNOFF DATA

120 BA          SUBBASIN CHARACTERISTICS
                      TAREA        .04  SUBBASIN AREA

                PRECIPITATION DATA

121 PB                STORM       1.19  BASIN TOTAL PRECIPITATION

 11 PI            INCREMENTAL PRECIPITATION PATTERN
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00       .00       .01       .01       .01       .01       .01       .01       .03
                      .03       .03       .06       .06       .06       .14       .14       .14       .03       .03
                      .03       .01       .01       .01       .01       .01       .01       .00       .00       .00
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00

122 LG          GREEN AND AMPT LOSS RATE
                      STRTL        .43  STARTING LOSS
                        DTH        .25  MOISTURE DEFICIT
                       PSIF       3.50  WETTING FRONT SUCTION
                      XKSAT        .51  HYDRAULIC CONDUCTIVITY
                      RTIMP        .00  PERCENT IMPERVIOUS AREA

123 UC          CLARK UNITGRAPH
                         TC       1.00  TIME OF CONCENTRATION
                          R        .94  STORAGE COEFFICIENT

124 UA          ACCUMULATED-AREA VS. TIME,  11 ORDINATES
                        .0       5.0      16.0      30.0      65.0      77.0      84.0      90.0      94.0      97.0
                     100.0

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UNIT HYDROGRAPH PARAMETERS

CLARK TC= 1.00 HR, R= .94 HR

SNYDER TP= .59 HR, CP= .39

UNIT HYDROGRAPH

65 END-OF-PERIOD ORDINATES

1.	2.	5.	9.	14.	18.	19.	19.	18.	18.
17.	16.	15.	14.	13.	12.	11.	10.	9.	8.
7.	7.	6.	6.	5.	5.	4.	4.	4.	3.
3.	3.	3.	2.	2.	2.	2.	2.	2.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.					

****

HYDROGRAPH AT STATION Develo

****

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
								*								
1		0000	1	.00	.00	.00	0.	*	1		1230	151	.00	.00	.00	0.
1		0005	2	.00	.00	.00	0.	*	1		1235	152	.00	.00	.00	0.
1		0010	3	.00	.00	.00	0.	*	1		1240	153	.00	.00	.00	0.
1		0015	4	.00	.00	.00	0.	*	1		1245	154	.00	.00	.00	0.
1		0020	5	.00	.00	.00	0.	*	1		1250	155	.00	.00	.00	0.
1		0025	6	.00	.00	.00	0.	*	1		1255	156	.00	.00	.00	0.
1		0030	7	.00	.00	.00	0.	*	1		1300	157	.00	.00	.00	0.
1		0035	8	.00	.00	.00	0.	*	1		1305	158	.00	.00	.00	0.
1		0040	9	.00	.00	.00	0.	*	1		1310	159	.00	.00	.00	0.
1		0045	10	.00	.00	.00	0.	*	1		1315	160	.00	.00	.00	0.
1		0050	11	.00	.00	.00	0.	*	1		1320	161	.00	.00	.00	0.
1		0055	12	.00	.00	.00	0.	*	1		1325	162	.00	.00	.00	0.
1		0100	13	.00	.00	.00	0.	*	1		1330	163	.00	.00	.00	0.
1		0105	14	.00	.00	.00	0.	*	1		1335	164	.00	.00	.00	0.
1		0110	15	.00	.00	.00	0.	*	1		1340	165	.00	.00	.00	0.
1		0115	16	.00	.00	.00	0.	*	1		1345	166	.00	.00	.00	0.
1		0120	17	.00	.00	.00	0.	*	1		1350	167	.00	.00	.00	0.
1		0125	18	.00	.00	.00	0.	*	1		1355	168	.00	.00	.00	0.
1		0130	19	.00	.00	.00	0.	*	1		1400	169	.00	.00	.00	0.
1		0135	20	.00	.00	.00	0.	*	1		1405	170	.00	.00	.00	0.
1		0140	21	.00	.00	.00	0.	*	1		1410	171	.00	.00	.00	0.
1		0145	22	.00	.00	.00	0.	*	1		1415	172	.00	.00	.00	0.
1		0150	23	.00	.00	.00	0.	*	1		1420	173	.00	.00	.00	0.
1		0155	24	.00	.00	.00	0.	*	1		1425	174	.00	.00	.00	0.
1		0200	25	.00	.00	.00	0.	*	1		1430	175	.00	.00	.00	0.
1		0205	26	.00	.00	.00	0.	*	1		1435	176	.00	.00	.00	0.
1		0210	27	.00	.00	.00	0.	*	1		1440	177	.00	.00	.00	0.
1		0215	28	.00	.00	.00	0.	*	1		1445	178	.00	.00	.00	0.
1		0220	29	.01	.01	.00	0.	*	1		1450	179	.00	.00	.00	0.
1		0225	30	.01	.01	.00	0.	*	1		1455	180	.00	.00	.00	0.
1		0230	31	.01	.01	.00	0.	*	1		1500	181	.00	.00	.00	0.
1		0235	32	.00	.00	.00	0.	*	1		1505	182	.00	.00	.00	0.
1		0240	33	.00	.00	.00	0.	*	1		1510	183	.00	.00	.00	0.
1		0245	34	.00	.00	.00	0.	*	1		1515	184	.00	.00	.00	0.
1		0250	35	.01	.01	.00	0.	*	1		1520	185	.00	.00	.00	0.

1	0255	36	.01	.01	.00	0.	*	1	1525	186	.00	.00	.00	0.
1	0300	37	.01	.01	.00	0.	*	1	1530	187	.00	.00	.00	0.
1	0305	38	.01	.01	.00	0.	*	1	1535	188	.00	.00	.00	0.
1	0310	39	.01	.01	.00	0.	*	1	1540	189	.00	.00	.00	0.
1	0315	40	.01	.01	.00	0.	*	1	1545	190	.00	.00	.00	0.
1	0320	41	.03	.03	.00	0.	*	1	1550	191	.00	.00	.00	0.
1	0325	42	.03	.03	.00	0.	*	1	1555	192	.00	.00	.00	0.
1	0330	43	.03	.03	.00	0.	*	1	1600	193	.00	.00	.00	0.
1	0335	44	.07	.07	.00	0.	*	1	1605	194	.00	.00	.00	0.
1	0340	45	.07	.07	.00	0.	*	1	1610	195	.00	.00	.00	0.
1	0345	46	.07	.07	.00	0.	*	1	1615	196	.00	.00	.00	0.
1	0350	47	.16	.16	.00	0.	*	1	1620	197	.00	.00	.00	0.
1	0355	48	.16	.16	.00	0.	*	1	1625	198	.00	.00	.00	0.
1	0400	49	.16	.13	.03	0.	*	1	1630	199	.00	.00	.00	0.
1	0405	50	.04	.04	.00	0.	*	1	1635	200	.00	.00	.00	0.
1	0410	51	.04	.04	.00	0.	*	1	1640	201	.00	.00	.00	0.
1	0415	52	.04	.04	.00	0.	*	1	1645	202	.00	.00	.00	0.
1	0420	53	.01	.01	.00	0.	*	1	1650	203	.00	.00	.00	0.
1	0425	54	.01	.01	.00	1.	*	1	1655	204	.00	.00	.00	0.
1	0430	55	.01	.01	.00	1.	*	1	1700	205	.00	.00	.00	0.
1	0435	56	.01	.01	.00	1.	*	1	1705	206	.00	.00	.00	0.
1	0440	57	.01	.01	.00	1.	*	1	1710	207	.00	.00	.00	0.
1	0445	58	.01	.01	.00	1.	*	1	1715	208	.00	.00	.00	0.
1	0450	59	.00	.00	.00	0.	*	1	1720	209	.00	.00	.00	0.
1	0455	60	.00	.00	.00	0.	*	1	1725	210	.00	.00	.00	0.
1	0500	61	.00	.00	.00	0.	*	1	1730	211	.00	.00	.00	0.
1	0505	62	.00	.00	.00	0.	*	1	1735	212	.00	.00	.00	0.
1	0510	63	.00	.00	.00	0.	*	1	1740	213	.00	.00	.00	0.
1	0515	64	.00	.00	.00	0.	*	1	1745	214	.00	.00	.00	0.
1	0520	65	.00	.00	.00	0.	*	1	1750	215	.00	.00	.00	0.
1	0525	66	.00	.00	.00	0.	*	1	1755	216	.00	.00	.00	0.
1	0530	67	.00	.00	.00	0.	*	1	1800	217	.00	.00	.00	0.
1	0535	68	.00	.00	.00	0.	*	1	1805	218	.00	.00	.00	0.
1	0540	69	.00	.00	.00	0.	*	1	1810	219	.00	.00	.00	0.
1	0545	70	.00	.00	.00	0.	*	1	1815	220	.00	.00	.00	0.
1	0550	71	.00	.00	.00	0.	*	1	1820	221	.00	.00	.00	0.
1	0555	72	.00	.00	.00	0.	*	1	1825	222	.00	.00	.00	0.
1	0600	73	.00	.00	.00	0.	*	1	1830	223	.00	.00	.00	0.
1	0605	74	.00	.00	.00	0.	*	1	1835	224	.00	.00	.00	0.
1	0610	75	.00	.00	.00	0.	*	1	1840	225	.00	.00	.00	0.
1	0615	76	.00	.00	.00	0.	*	1	1845	226	.00	.00	.00	0.
1	0620	77	.00	.00	.00	0.	*	1	1850	227	.00	.00	.00	0.
1	0625	78	.00	.00	.00	0.	*	1	1855	228	.00	.00	.00	0.
1	0630	79	.00	.00	.00	0.	*	1	1900	229	.00	.00	.00	0.
1	0635	80	.00	.00	.00	0.	*	1	1905	230	.00	.00	.00	0.
1	0640	81	.00	.00	.00	0.	*	1	1910	231	.00	.00	.00	0.
1	0645	82	.00	.00	.00	0.	*	1	1915	232	.00	.00	.00	0.
1	0650	83	.00	.00	.00	0.	*	1	1920	233	.00	.00	.00	0.
1	0655	84	.00	.00	.00	0.	*	1	1925	234	.00	.00	.00	0.
1	0700	85	.00	.00	.00	0.	*	1	1930	235	.00	.00	.00	0.
1	0705	86	.00	.00	.00	0.	*	1	1935	236	.00	.00	.00	0.
1	0710	87	.00	.00	.00	0.	*	1	1940	237	.00	.00	.00	0.
1	0715	88	.00	.00	.00	0.	*	1	1945	238	.00	.00	.00	0.
1	0720	89	.00	.00	.00	0.	*	1	1950	239	.00	.00	.00	0.
1	0725	90	.00	.00	.00	0.	*	1	1955	240	.00	.00	.00	0.
1	0730	91	.00	.00	.00	0.	*	1	2000	241	.00	.00	.00	0.
1	0735	92	.00	.00	.00	0.	*	1	2005	242	.00	.00	.00	0.
1	0740	93	.00	.00	.00	0.	*	1	2010	243	.00	.00	.00	0.

1	0745	94	.00	.00	.00	0.	*	1	2015	244	.00	.00	.00	0.
1	0750	95	.00	.00	.00	0.	*	1	2020	245	.00	.00	.00	0.
1	0755	96	.00	.00	.00	0.	*	1	2025	246	.00	.00	.00	0.
1	0800	97	.00	.00	.00	0.	*	1	2030	247	.00	.00	.00	0.
1	0805	98	.00	.00	.00	0.	*	1	2035	248	.00	.00	.00	0.
1	0810	99	.00	.00	.00	0.	*	1	2040	249	.00	.00	.00	0.
1	0815	100	.00	.00	.00	0.	*	1	2045	250	.00	.00	.00	0.
1	0820	101	.00	.00	.00	0.	*	1	2050	251	.00	.00	.00	0.
1	0825	102	.00	.00	.00	0.	*	1	2055	252	.00	.00	.00	0.
1	0830	103	.00	.00	.00	0.	*	1	2100	253	.00	.00	.00	0.
1	0835	104	.00	.00	.00	0.	*	1	2105	254	.00	.00	.00	0.
1	0840	105	.00	.00	.00	0.	*	1	2110	255	.00	.00	.00	0.
1	0845	106	.00	.00	.00	0.	*	1	2115	256	.00	.00	.00	0.
1	0850	107	.00	.00	.00	0.	*	1	2120	257	.00	.00	.00	0.
1	0855	108	.00	.00	.00	0.	*	1	2125	258	.00	.00	.00	0.
1	0900	109	.00	.00	.00	0.	*	1	2130	259	.00	.00	.00	0.
1	0905	110	.00	.00	.00	0.	*	1	2135	260	.00	.00	.00	0.
1	0910	111	.00	.00	.00	0.	*	1	2140	261	.00	.00	.00	0.
1	0915	112	.00	.00	.00	0.	*	1	2145	262	.00	.00	.00	0.
1	0920	113	.00	.00	.00	0.	*	1	2150	263	.00	.00	.00	0.
1	0925	114	.00	.00	.00	0.	*	1	2155	264	.00	.00	.00	0.
1	0930	115	.00	.00	.00	0.	*	1	2200	265	.00	.00	.00	0.
1	0935	116	.00	.00	.00	0.	*	1	2205	266	.00	.00	.00	0.
1	0940	117	.00	.00	.00	0.	*	1	2210	267	.00	.00	.00	0.
1	0945	118	.00	.00	.00	0.	*	1	2215	268	.00	.00	.00	0.
1	0950	119	.00	.00	.00	0.	*	1	2220	269	.00	.00	.00	0.
1	0955	120	.00	.00	.00	0.	*	1	2225	270	.00	.00	.00	0.
1	1000	121	.00	.00	.00	0.	*	1	2230	271	.00	.00	.00	0.
1	1005	122	.00	.00	.00	0.	*	1	2235	272	.00	.00	.00	0.
1	1010	123	.00	.00	.00	0.	*	1	2240	273	.00	.00	.00	0.
1	1015	124	.00	.00	.00	0.	*	1	2245	274	.00	.00	.00	0.
1	1020	125	.00	.00	.00	0.	*	1	2250	275	.00	.00	.00	0.
1	1025	126	.00	.00	.00	0.	*	1	2255	276	.00	.00	.00	0.
1	1030	127	.00	.00	.00	0.	*	1	2300	277	.00	.00	.00	0.
1	1035	128	.00	.00	.00	0.	*	1	2305	278	.00	.00	.00	0.
1	1040	129	.00	.00	.00	0.	*	1	2310	279	.00	.00	.00	0.
1	1045	130	.00	.00	.00	0.	*	1	2315	280	.00	.00	.00	0.
1	1050	131	.00	.00	.00	0.	*	1	2320	281	.00	.00	.00	0.
1	1055	132	.00	.00	.00	0.	*	1	2325	282	.00	.00	.00	0.
1	1100	133	.00	.00	.00	0.	*	1	2330	283	.00	.00	.00	0.
1	1105	134	.00	.00	.00	0.	*	1	2335	284	.00	.00	.00	0.
1	1110	135	.00	.00	.00	0.	*	1	2340	285	.00	.00	.00	0.
1	1115	136	.00	.00	.00	0.	*	1	2345	286	.00	.00	.00	0.
1	1120	137	.00	.00	.00	0.	*	1	2350	287	.00	.00	.00	0.
1	1125	138	.00	.00	.00	0.	*	1	2355	288	.00	.00	.00	0.
1	1130	139	.00	.00	.00	0.	*	2	0000	289	.00	.00	.00	0.
1	1135	140	.00	.00	.00	0.	*	2	0005	290	.00	.00	.00	0.
1	1140	141	.00	.00	.00	0.	*	2	0010	291	.00	.00	.00	0.
1	1145	142	.00	.00	.00	0.	*	2	0015	292	.00	.00	.00	0.
1	1150	143	.00	.00	.00	0.	*	2	0020	293	.00	.00	.00	0.
1	1155	144	.00	.00	.00	0.	*	2	0025	294	.00	.00	.00	0.
1	1200	145	.00	.00	.00	0.	*	2	0030	295	.00	.00	.00	0.
1	1205	146	.00	.00	.00	0.	*	2	0035	296	.00	.00	.00	0.
1	1210	147	.00	.00	.00	0.	*	2	0040	297	.00	.00	.00	0.
1	1215	148	.00	.00	.00	0.	*	2	0045	298	.00	.00	.00	0.
1	1220	149	.00	.00	.00	0.	*	2	0050	299	.00	.00	.00	0.
1	1225	150	.00	.00	.00	0.	*	2	0055	300	.00	.00	.00	0.
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*****************************************************************************************************************************

   TOTAL RAINFALL =    1.19, TOTAL LOSS =    1.16, TOTAL EXCESS =     .03

PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                   6-HR       24-HR       72-HR     24.92-HR
 (CFS)       (HR)
                        (CFS)
     1.      4.50                   0.          0.          0.          0.
                      (INCHES)     .029        .029        .029        .029
                       (AC-FT)       0.          0.          0.          0.

                       CUMULATIVE AREA =   .04 SQ MI


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


          **************
          *            *
127 KK    *   Node16   *
          *            *
          **************
                       confluence g1-g2-g3-g4 and phase 2

130 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

129 HC          HYDROGRAPH COMBINATION
                      ICOMP          2  NUMBER OF HYDROGRAPHS TO COMBINE

                                                    ***

*****************************************************************************************************************************

                                    HYDROGRAPH AT STATION   Node16
                                         SUM OF  2 HYDROGRAPHS

*****************************************************************************************************************************
                                 *                                 *                                 *
  DA MON HRMN  ORD      FLOW     *  DA MON HRMN  ORD      FLOW     *  DA MON HRMN  ORD      FLOW     *  DA MON HRMN  ORD      FLOW
                                 *                                 *                                 *
   1    0000    1        0.      *   1    0615   76       10.      *   1    1230  151        0.      *   1    1845  226        0.
   1    0005    2        0.      *   1    0620   77       10.      *   1    1235  152        0.      *   1    1850  227        0.
   1    0010    3        0.      *   1    0625   78       10.      *   1    1240  153        0.      *   1    1855  228        0.
   1    0015    4        0.      *   1    0630   79        9.      *   1    1245  154        0.      *   1    1900  229        0.
   1    0020    5        0.      *   1    0635   80        9.      *   1    1250  155        0.      *   1    1905  230        0.
   1    0025    6        0.      *   1    0640   81        8.      *   1    1255  156        0.      *   1    1910  231        0.
   1    0030    7        0.      *   1    0645   82        8.      *   1    1300  157        0.      *   1    1915  232        0.
   1    0035    8        0.      *   1    0650   83        8.      *   1    1305  158        0.      *   1    1920  233        0.
   1    0040    9        0.      *   1    0655   84        7.      *   1    1310  159        0.      *   1    1925  234        0.
   1    0045   10        0.      *   1    0700   85        7.      *   1    1315  160        0.      *   1    1930  235        0.
   1    0050   11        0.      *   1    0705   86        7.      *   1    1320  161        0.      *   1    1935  236        0.
   1    0055   12        0.      *   1    0710   87        6.      *   1    1325  162        0.      *   1    1940  237        0.
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1	0100	13	0.	*	1	0715	88	6.	*	1	1330	163	0.	*	1	1945	238	0.
1	0105	14	0.	*	1	0720	89	6.	*	1	1335	164	0.	*	1	1950	239	0.
1	0110	15	0.	*	1	0725	90	6.	*	1	1340	165	0.	*	1	1955	240	0.
1	0115	16	0.	*	1	0730	91	5.	*	1	1345	166	0.	*	1	2000	241	0.
1	0120	17	0.	*	1	0735	92	5.	*	1	1350	167	0.	*	1	2005	242	0.
1	0125	18	1.	*	1	0740	93	5.	*	1	1355	168	0.	*	1	2010	243	0.
1	0130	19	1.	*	1	0745	94	5.	*	1	1400	169	0.	*	1	2015	244	0.
1	0135	20	1.	*	1	0750	95	5.	*	1	1405	170	0.	*	1	2020	245	0.
1	0140	21	1.	*	1	0755	96	4.	*	1	1410	171	0.	*	1	2025	246	0.
1	0145	22	1.	*	1	0800	97	4.	*	1	1415	172	0.	*	1	2030	247	0.
1	0150	23	1.	*	1	0805	98	4.	*	1	1420	173	0.	*	1	2035	248	0.
1	0155	24	1.	*	1	0810	99	4.	*	1	1425	174	0.	*	1	2040	249	0.
1	0200	25	1.	*	1	0815	100	3.	*	1	1430	175	0.	*	1	2045	250	0.
1	0205	26	1.	*	1	0820	101	3.	*	1	1435	176	0.	*	1	2050	251	0.
1	0210	27	1.	*	1	0825	102	3.	*	1	1440	177	0.	*	1	2055	252	0.
1	0215	28	1.	*	1	0830	103	3.	*	1	1445	178	0.	*	1	2100	253	0.
1	0220	29	1.	*	1	0835	104	3.	*	1	1450	179	0.	*	1	2105	254	0.
1	0225	30	1.	*	1	0840	105	2.	*	1	1455	180	0.	*	1	2110	255	0.
1	0230	31	1.	*	1	0845	106	2.	*	1	1500	181	0.	*	1	2115	256	0.
1	0235	32	1.	*	1	0850	107	2.	*	1	1505	182	0.	*	1	2120	257	0.
1	0240	33	1.	*	1	0855	108	2.	*	1	1510	183	0.	*	1	2125	258	0.
1	0245	34	1.	*	1	0900	109	2.	*	1	1515	184	0.	*	1	2130	259	0.
1	0250	35	1.	*	1	0905	110	2.	*	1	1520	185	0.	*	1	2135	260	0.
1	0255	36	1.	*	1	0910	111	2.	*	1	1525	186	0.	*	1	2140	261	0.
1	0300	37	1.	*	1	0915	112	2.	*	1	1530	187	0.	*	1	2145	262	0.
1	0305	38	1.	*	1	0920	113	2.	*	1	1535	188	0.	*	1	2150	263	0.
1	0310	39	1.	*	1	0925	114	1.	*	1	1540	189	0.	*	1	2155	264	0.
1	0315	40	1.	*	1	0930	115	1.	*	1	1545	190	0.	*	1	2200	265	0.
1	0320	41	1.	*	1	0935	116	1.	*	1	1550	191	0.	*	1	2205	266	0.
1	0325	42	1.	*	1	0940	117	1.	*	1	1555	192	0.	*	1	2210	267	0.
1	0330	43	2.	*	1	0945	118	1.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	2.	*	1	0950	119	1.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	2.	*	1	0955	120	1.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	2.	*	1	1000	121	1.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	2.	*	1	1005	122	1.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	3.	*	1	1010	123	1.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	3.	*	1	1015	124	1.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	4.	*	1	1020	125	1.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	5.	*	1	1025	126	1.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	6.	*	1	1030	127	1.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	9.	*	1	1035	128	1.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	13.	*	1	1040	129	1.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	17.	*	1	1045	130	1.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	19.	*	1	1050	131	1.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	21.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	22.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	23.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	23.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	22.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	21.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	20.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	19.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	18.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	17.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	16.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	15.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	14.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	13.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.

1	0550	71	12.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	12.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	12.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	11.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	11.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
23.	4.83		8.	2.	2.	2.
		(INCHES)	.103	.111	.111	.111
		(AC-FT)	4.	5.	5.	5.

CUMULATIVE AREA = .76 SQ MI

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          *            *
131 KK    *   Route    *    water through in Phase 2 channel and close flapgates on culverts
          *            *
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137 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE

HYDROGRAPH ROUTING DATA

132 RS STORAGE ROUTING

NSTPS	1	NUMBER OF SUBREACHES
ITYP	STOR	TYPE OF INITIAL CONDITION
RSVRIC	.00	INITIAL CONDITION
X	.00	WORKING R AND D COEFFICIENT

133 SV	STORAGE	.0	1.2	3.6	7.3	12.1	18.2	25.5	34.0	43.7	54.7
134 SE	ELEVATION	974.00	976.00	977.00	978.00	979.00	980.00	981.00	982.00	983.00	984.00
135 SQ	DISCHARGE	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
136 SE	ELEVATION	974.00	976.00	977.00	978.00	979.00	980.00	981.00	982.00	983.00	984.00

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COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	1.21	3.64	7.29	12.14	18.22	25.50	34.00	43.72	54.65
OUTFLOW	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
ELEVATION	974.00	976.00	977.00	978.00	979.00	980.00	981.00	982.00	983.00	984.00

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HYDROGRAPH AT STATION Route

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DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	974.0	*	1		0820	101	0.	4.1	977.1	*	1		1640	201	0.	4.5	977.2
1		0005	2	0.	.0	974.0	*	1		0825	102	0.	4.2	977.1	*	1		1645	202	0.	4.5	977.2
1		0010	3	0.	.0	974.0	*	1		0830	103	0.	4.2	977.1	*	1		1650	203	0.	4.5	977.2
1		0015	4	0.	.0	974.0	*	1		0835	104	0.	4.2	977.2	*	1		1655	204	0.	4.5	977.2
1		0020	5	0.	.0	974.0	*	1		0840	105	0.	4.2	977.2	*	1		1700	205	0.	4.5	977.2
1		0025	6	0.	.0	974.0	*	1		0845	106	0.	4.2	977.2	*	1		1705	206	0.	4.5	977.2
1		0030	7	0.	.0	974.0	*	1		0850	107	0.	4.3	977.2	*	1		1710	207	0.	4.5	977.2
1		0035	8	0.	.0	974.0	*	1		0855	108	0.	4.3	977.2	*	1		1715	208	0.	4.5	977.2
1		0040	9	0.	.0	974.0	*	1		0900	109	0.	4.3	977.2	*	1		1720	209	0.	4.5	977.2
1		0045	10	0.	.0	974.0	*	1		0905	110	0.	4.3	977.2	*	1		1725	210	0.	4.5	977.2
1		0050	11	0.	.0	974.0	*	1		0910	111	0.	4.3	977.2	*	1		1730	211	0.	4.5	977.2
1		0055	12	0.	.0	974.0	*	1		0915	112	0.	4.3	977.2	*	1		1735	212	0.	4.5	977.2
1		0100	13	0.	.0	974.0	*	1		0920	113	0.	4.3	977.2	*	1		1740	213	0.	4.5	977.2
1		0105	14	0.	.0	974.0	*	1		0925	114	0.	4.3	977.2	*	1		1745	214	0.	4.5	977.2
1		0110	15	0.	.0	974.0	*	1		0930	115	0.	4.3	977.2	*	1		1750	215	0.	4.5	977.2
1		0115	16	0.	.0	974.0	*	1		0935	116	0.	4.4	977.2	*	1		1755	216	0.	4.5	977.2
1		0120	17	0.	.0	974.0	*	1		0940	117	0.	4.4	977.2	*	1		1800	217	0.	4.5	977.2
1		0125	18	0.	.0	974.0	*	1		0945	118	0.	4.4	977.2	*	1		1805	218	0.	4.5	977.2
1		0130	19	0.	.0	974.0	*	1		0950	119	0.	4.4	977.2	*	1		1810	219	0.	4.5	977.2
1		0135	20	0.	.0	974.0	*	1		0955	120	0.	4.4	977.2	*	1		1815	220	0.	4.5	977.2
1		0140	21	0.	.0	974.0	*	1		1000	121	0.	4.4	977.2	*	1		1820	221	0.	4.5	977.2
1		0145	22	0.	.0	974.1	*	1		1005	122	0.	4.4	977.2	*	1		1825	222	0.	4.5	977.2
1		0150	23	0.	.0	974.1	*	1		1010	123	0.	4.4	977.2	*	1		1830	223	0.	4.5	977.2
1		0155	24	0.	.0	974.1	*	1		1015	124	0.	4.4	977.2	*	1		1835	224	0.	4.5	977.2
1		0200	25	0.	.1	974.1	*	1		1020	125	0.	4.4	977.2	*	1		1840	225	0.	4.5	977.2
1		0205	26	0.	.1	974.1	*	1		1025	126	0.	4.4	977.2	*	1		1845	226	0.	4.5	977.2
1		0210	27	0.	.1	974.1	*	1		1030	127	0.	4.4	977.2	*	1		1850	227	0.	4.5	977.2
1		0215	28	0.	.1	974.1	*	1		1035	128	0.	4.4	977.2	*	1		1855	228	0.	4.5	977.2
1		0220	29	0.	.1	974.1	*	1		1040	129	0.	4.4	977.2	*	1		1900	229	0.	4.5	977.2
1		0225	30	0.	.1	974.1	*	1		1045	130	0.	4.4	977.2	*	1		1905	230	0.	4.5	977.2
1		0230	31	0.	.1	974.1	*	1		1050	131	0.	4.4	977.2	*	1		1910	231	0.	4.5	977.2
1		0235	32	0.	.1	974.2	*	1		1055	132	0.	4.4	977.2	*	1		1915	232	0.	4.5	977.2
1		0240	33	0.	.1	974.2	*	1		1100	133	0.	4.5	977.2	*	1		1920	233	0.	4.5	977.2
1		0245	34	0.	.1	974.2	*	1		1105	134	0.	4.5	977.2	*	1		1925	234	0.	4.5	977.2
1		0250	35	0.	.1	974.2	*	1		1110	135	0.	4.5	977.2	*	1		1930	235	0.	4.5	977.2
1		0255	36	0.	.1	974.2	*	1		1115	136	0.	4.5	977.2	*	1		1935	236	0.	4.5	977.2
1		0300	37	0.	.1	974.2	*	1		1120	137	0.	4.5	977.2	*	1		1940	237	0.	4.5	977.2
1		0305	38	0.	.1	974.2	*	1		1125	138	0.	4.5	977.2	*	1		1945	238	0.	4.5	977.2
1		0310	39	0.	.2	974.3	*	1		1130	139	0.	4.5	977.2	*	1		1950	239	0.	4.5	977.2
1		0315	40	0.	.2	974.3	*	1		1135	140	0.	4.5	977.2	*	1		1955	240	0.	4.5	977.2
1		0320	41	0.	.2	974.3	*	1		1140	141	0.	4.5	977.2	*	1		2000	241	0.	4.5	977.2
1		0325	42	0.	.2	974.3	*	1		1145	142	0.	4.5	977.2	*	1		2005	242	0.	4.5	977.2
1		0330	43	0.	.2	974.3	*	1		1150	143	0.	4.5	977.2	*	1		2010	243	0.	4.5	977.2
1		0335	44	0.	.2	974.3	*	1		1155	144	0.	4.5	977.2	*	1		2015	244	0.	4.5	977.2

1	0340	45	0.	.2	974.4	*	1	1200	145	0.	4.5	977.2	*	1	2020	245	0.	4.5	977.2
1	0345	46	0.	.2	974.4	*	1	1205	146	0.	4.5	977.2	*	1	2025	246	0.	4.5	977.2
1	0350	47	0.	.2	974.4	*	1	1210	147	0.	4.5	977.2	*	1	2030	247	0.	4.5	977.2
1	0355	48	0.	.3	974.4	*	1	1215	148	0.	4.5	977.2	*	1	2035	248	0.	4.5	977.2
1	0400	49	0.	.3	974.5	*	1	1220	149	0.	4.5	977.2	*	1	2040	249	0.	4.5	977.2
1	0405	50	0.	.3	974.5	*	1	1225	150	0.	4.5	977.2	*	1	2045	250	0.	4.5	977.2
1	0410	51	0.	.3	974.6	*	1	1230	151	0.	4.5	977.2	*	1	2050	251	0.	4.5	977.2
1	0415	52	0.	.4	974.6	*	1	1235	152	0.	4.5	977.2	*	1	2055	252	0.	4.5	977.2
1	0420	53	0.	.4	974.7	*	1	1240	153	0.	4.5	977.2	*	1	2100	253	0.	4.5	977.2
1	0425	54	0.	.5	974.8	*	1	1245	154	0.	4.5	977.2	*	1	2105	254	0.	4.5	977.2
1	0430	55	0.	.6	975.0	*	1	1250	155	0.	4.5	977.2	*	1	2110	255	0.	4.5	977.2
1	0435	56	0.	.7	975.2	*	1	1255	156	0.	4.5	977.2	*	1	2115	256	0.	4.5	977.2
1	0440	57	0.	.9	975.4	*	1	1300	157	0.	4.5	977.2	*	1	2120	257	0.	4.5	977.2
1	0445	58	0.	1.0	975.7	*	1	1305	158	0.	4.5	977.2	*	1	2125	258	0.	4.5	977.2
1	0450	59	0.	1.2	975.9	*	1	1310	159	0.	4.5	977.2	*	1	2130	259	0.	4.5	977.2
1	0455	60	0.	1.3	976.0	*	1	1315	160	0.	4.5	977.2	*	1	2135	260	0.	4.5	977.2
1	0500	61	0.	1.5	976.1	*	1	1320	161	0.	4.5	977.2	*	1	2140	261	0.	4.5	977.2
1	0505	62	0.	1.6	976.2	*	1	1325	162	0.	4.5	977.2	*	1	2145	262	0.	4.5	977.2
1	0510	63	0.	1.8	976.2	*	1	1330	163	0.	4.5	977.2	*	1	2150	263	0.	4.5	977.2
1	0515	64	0.	1.9	976.3	*	1	1335	164	0.	4.5	977.2	*	1	2155	264	0.	4.5	977.2
1	0520	65	0.	2.0	976.3	*	1	1340	165	0.	4.5	977.2	*	1	2200	265	0.	4.5	977.2
1	0525	66	0.	2.2	976.4	*	1	1345	166	0.	4.5	977.2	*	1	2205	266	0.	4.5	977.2
1	0530	67	0.	2.3	976.4	*	1	1350	167	0.	4.5	977.2	*	1	2210	267	0.	4.5	977.2
1	0535	68	0.	2.4	976.5	*	1	1355	168	0.	4.5	977.2	*	1	2215	268	0.	4.5	977.2
1	0540	69	0.	2.5	976.5	*	1	1400	169	0.	4.5	977.2	*	1	2220	269	0.	4.5	977.2
1	0545	70	0.	2.6	976.6	*	1	1405	170	0.	4.5	977.2	*	1	2225	270	0.	4.5	977.2
1	0550	71	0.	2.7	976.6	*	1	1410	171	0.	4.5	977.2	*	1	2230	271	0.	4.5	977.2
1	0555	72	0.	2.7	976.6	*	1	1415	172	0.	4.5	977.2	*	1	2235	272	0.	4.5	977.2
1	0600	73	0.	2.8	976.7	*	1	1420	173	0.	4.5	977.2	*	1	2240	273	0.	4.5	977.2
1	0605	74	0.	2.9	976.7	*	1	1425	174	0.	4.5	977.2	*	1	2245	274	0.	4.5	977.2
1	0610	75	0.	3.0	976.7	*	1	1430	175	0.	4.5	977.2	*	1	2250	275	0.	4.5	977.2
1	0615	76	0.	3.1	976.8	*	1	1435	176	0.	4.5	977.2	*	1	2255	276	0.	4.5	977.2
1	0620	77	0.	3.1	976.8	*	1	1440	177	0.	4.5	977.2	*	1	2300	277	0.	4.5	977.2
1	0625	78	0.	3.2	976.8	*	1	1445	178	0.	4.5	977.2	*	1	2305	278	0.	4.5	977.2
1	0630	79	0.	3.3	976.8	*	1	1450	179	0.	4.5	977.2	*	1	2310	279	0.	4.5	977.2
1	0635	80	0.	3.3	976.9	*	1	1455	180	0.	4.5	977.2	*	1	2315	280	0.	4.5	977.2
1	0640	81	0.	3.4	976.9	*	1	1500	181	0.	4.5	977.2	*	1	2320	281	0.	4.5	977.2
1	0645	82	0.	3.4	976.9	*	1	1505	182	0.	4.5	977.2	*	1	2325	282	0.	4.5	977.2
1	0650	83	0.	3.5	976.9	*	1	1510	183	0.	4.5	977.2	*	1	2330	283	0.	4.5	977.2
1	0655	84	0.	3.5	977.0	*	1	1515	184	0.	4.5	977.2	*	1	2335	284	0.	4.5	977.2
1	0700	85	0.	3.6	977.0	*	1	1520	185	0.	4.5	977.2	*	1	2340	285	0.	4.5	977.2
1	0705	86	0.	3.6	977.0	*	1	1525	186	0.	4.5	977.2	*	1	2345	286	0.	4.5	977.2
1	0710	87	0.	3.7	977.0	*	1	1530	187	0.	4.5	977.2	*	1	2350	287	0.	4.5	977.2
1	0715	88	0.	3.7	977.0	*	1	1535	188	0.	4.5	977.2	*	1	2355	288	0.	4.5	977.2
1	0720	89	0.	3.8	977.0	*	1	1540	189	0.	4.5	977.2	*	2	0000	289	0.	4.5	977.2
1	0725	90	0.	3.8	977.0	*	1	1545	190	0.	4.5	977.2	*	2	0005	290	0.	4.5	977.2
1	0730	91	0.	3.8	977.1	*	1	1550	191	0.	4.5	977.2	*	2	0010	291	0.	4.5	977.2
1	0735	92	0.	3.9	977.1	*	1	1555	192	0.	4.5	977.2	*	2	0015	292	0.	4.5	977.2
1	0740	93	0.	3.9	977.1	*	1	1600	193	0.	4.5	977.2	*	2	0020	293	0.	4.5	977.2
1	0745	94	0.	4.0	977.1	*	1	1605	194	0.	4.5	977.2	*	2	0025	294	0.	4.5	977.2
1	0750	95	0.	4.0	977.1	*	1	1610	195	0.	4.5	977.2	*	2	0030	295	0.	4.5	977.2
1	0755	96	0.	4.0	977.1	*	1	1615	196	0.	4.5	977.2	*	2	0035	296	0.	4.5	977.2
1	0800	97	0.	4.0	977.1	*	1	1620	197	0.	4.5	977.2	*	2	0040	297	0.	4.5	977.2
1	0805	98	0.	4.1	977.1	*	1	1625	198	0.	4.5	977.2	*	2	0045	298	0.	4.5	977.2
1	0810	99	0.	4.1	977.1	*	1	1630	199	0.	4.5	977.2	*	2	0050	299	0.	4.5	977.2
1	0815	100	0.	4.1	977.1	*	1	1635	200	0.	4.5	977.2	*	2	0055	300	0.	4.5	977.2
						*							*						

****

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
0.	.08		0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
5.	17.33	5.	4.	3.	3.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
977.24	20.08	977.23	976.69	976.59	976.59

CUMULATIVE AREA = .76 SQ MI

RUNOFF SUMMARY
FLOW IN CUBIC FEET PER SECOND
TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD 6-HOUR	24-HOUR	72-HOUR	BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
HYDROGRAPH AT	DEVELO	19.	4.50	5.	1.	1.	.41		
ROUTED TO	Node17	19.	4.50	5.	1.	1.	.41	77.93	4.50
ROUTED TO	Node10	18.	4.58	5.	1.	1.	.41	6.71	4.58
HYDROGRAPH AT	DEVELO	5.	4.42	2.	0.	0.	.04		
ROUTED TO	Node7	0.	.08	0.	0.	0.	.04		
2 COMBINED AT	Node11	18.	4.58	5.	1.	1.	.45		
ROUTED TO	Node10	18.	4.75	5.	1.	1.	.45	6.69	4.75
HYDROGRAPH AT	DEVELO	1.	4.42	0.	0.	0.	.01		
ROUTED TO	Node8	0.	.08	0.	0.	0.	.01		
2 COMBINED AT	Node13	18.	4.75	5.	1.	1.	.46		
ROUTED TO	Node10	18.	4.83	5.	1.	1.	.46	6.68	4.83
HYDROGRAPH AT	DEVELO	14.	4.50	4.	1.	1.	.25		
ROUTED TO	Node9	5.	5.67	4.	1.	1.	.25	1.25	5.67
2 COMBINED AT	Node15	22.	4.83	8.	2.	2.	.71		
HYDROGRAPH AT	Develo	1.	4.50	0.	0.	0.	.04		

2 COMBINED AT								
	Node16	23.	4.83	8.	2.	2.	.76	
ROUTED TO								
	Route	0.	.08	0.	0.	0.	.76	
							977.24	20.08

*** NORMAL END OF HEC-1 ***

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****************************************
*                                      *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)  *
*            SEPTEMBER 1990            *
*             VERSION 4.0              *
*                                      *
* RUN DATE  10/16/1997  TIME  14:49:02 *
*                                      *
****************************************
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****************************************
*                                      *
*    U.S. ARMY CORPS OF ENGINEERS      *
*    HYDROLOGIC ENGINEERING CENTER     *
*          609 SECOND STREET           *
*       DAVIS, CALIFORNIA 95616        *
*          (916) 756-1104              *
*                                      *
****************************************
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X     X  XXXXXXX   XXXXX          X
X     X  X        X     X        XX
X     X  X        X              X
XXXXXXX  XXXX     X       XXXXX  X
X     X  X        X              X
X     X  X        X     X        X
X     X  XXXXXXX   XXXXX         XXX
```

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

MODEL #7 - Phase 3 10-Year

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  1           ID   model #7
  2           ID
  3           IT      5                    300
  4           IO      3

  5           KK   A
  6           KM   SUB-BASIN A
  7           KM   6-HOUR RAINFALL, PATTERN NO. 2.13 WAS USED TO FIND TC & R FOR THIS BASIN
  8           KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .970
  9           KM     L = 1.00  Kb = .028  Adj. Slope =   7.0
 10           BA    .253
 11           IN     15
 12           KM   RAINFALL DEPTH OF 2.00 WAS SPACIALLY REDUCED AS SHOWN BY THE PB RECORD
 13           PB   1.940
 14           KM   THE FOLLOWING PC RECORD USED A 6-HOUR STORM WITH A PATTERN No. OF 2.04
 15           PC    .000    .010    .017    .026    .036    .045    .054    .063    .072    .081
 16           PC    .093    .107    .127    .170    .259    .454    .691    .832    .896    .935
 17           PC    .949    .963    .975    .988   1.000
 18           LG    .230    .150   8.500    .059  27.000
 19           UC    .979    .791
 20           UA      0       5      16      30      65      77      84      90      94      97
 21           UA    100
 22           KO      2

 23           KK   RTEA2B
 24           KM   CHANNEL ROUTING TO SUB BASIN B NORMAL DEPTH CHANNEL ROUTING
 25           RS      4    FLOW       0       0
 26           RC    .025    .015    .025    2650   .0006     103
 27           RX    100     150     152     156     158     185     212     216
 28           RY    102     101     100     102     101  101.54     101     103
 29           KO      2

 30           KK   B
 31           KM   SUB-BASIN B
 32           KM   6-HOUR RAINFALL, PATTERN NO. 2.00 WAS USED TO FIND TC & R FOR THIS BASIN
 33           KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .975
 34           KM     L = 1.00  Kb = .050  Adj. Slope =   6.0
 35           BA    .319
 36           LG    .500    .240   6.400    .136    .000
 37           UC   1.408   1.038
 38           UA      0       3       5       8      12      20      43      75      90      96
 39           UA    100
 40           KO      2

 41           KK   AB
 42           KM   COMBINE SUB-BASIN B WITH ROUTED SUB-BASIN A
 43           HC      2
 44           KO      2

 45           KK   RTEAB2C
 46           KM   ROUTE COMBINED HYDROGRAPH TO SUB BASIN C
 47           RS      4    FLOW       0       0
 48           RC    .025    .015    .025    2650   .0006     103
 49           RX    100     150     152     156     158     185     212     216
 50           RY    102     101     100     102     101  101.54     101     103
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  51          KO       2

  52          KK   C
  53          KM   SUB-BASIN C
  54          KM   6-HOUR RAINFALL, PATTERN NO. 2.00 WAS USED TO FIND TC & R FOR THIS BASIN
  55          KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .975
  56          KM     L = 1.00  Kb = .049  Adj. Slope =   10.0
  57          BA    .450
  58          LG    .500    .150   7.600    .080    .000
  59          UC    .979    .570
  60          UA       0       3       5       8      12      20      43      75      90      96
  61          UA     100
  62          KO       2

  63          KK   ABC
  64          KM   COMBINE SUB-BASIN C WITH MAINSTREAM HYDROGRAPH
  65          HC       2
  66          KO       2

  67          KK   RTEABC2D
  68          KM   ROUTE COMBINED HYDROGRAPH TO SUB BASIN D
  69          RS       3    FLOW       0       0
  70          RC    .025    .015    .025    4150   .0011  104.76
  71          RX     100     150     152     156     158     202     246     250
  72          RY     102     101     100     102     101  101.88  102.76  104.76
  73          KO       2

  74          KK   D
  75          KM   SUB-BASIN D
  76          KM   6-HOUR RAINFALL, PATTERN NO. 2.00 WAS USED TO FIND TC & R FOR THIS BASIN
  77          KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .975
  78          KM     L = 1.80  Kb = .048  Adj. Slope =   5.5
  79          BA    .688
  80          LG    .271    .248   3.600    .149   23.00
  81          UC   1.500   1.149
  82          UA       0       3       5       8      12      20      43      75      90      96
  83          UA     100
  84          KO       2

  85          KK   RTED
  86          KM   ROUTE SUB BASIN D THROUGH RESERVOIR TO REMOVE DEVELOPED AREA STORAGE
  87          RS       1    STOR       0       0
  88          SV       0      10      20      30   35.29   37.65      40
  89          SE     100     101     102     103     104   104.5     105
  90          SQ       0       0       0       0       0    1500    3000
  91          SE     100     101     102     103     104   104.5     105
  92          KO       2

  93          KK   ABCD
  94          KM   COMBINE ROUTED SUB-BASIN D WITH MAINSTREAM
  95          HC       2
  96          KO       2
```

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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 97           KK   RTEABCD2F
 98           KM   ROUTE COMBINED HYDROGRAPH TO SUB BASIN F
 99           RS       1    FLOW       0       0
100           RC    .025    .015    .025     850    .001     103
101           RX     100     150     152     156     158     202     246     250
102           RY     102     101     100     102     101  101.88     101     103
103           KO       2

104           KK   E
105           KM   SUB-BASIN E
106           KM   6-HOUR RAINFALL, PATTERN NO. 2.10 WAS USED TO FIND TC & R FOR THIS BASIN
107           KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .971
108           KM     L = 1.32  Kb = .045  Adj. Slope = 6.9
109           BA    .572
110           LG    .300    .205   6.400    .130  20.000
111           UC   1.375   0.902
112           UA       0       5      16      30      65      77      84      90      94      97
113           UA     100
114           KO       2

115           KK   RTEE
116           KM   ROUTE SUB BASIN E THROUGH RESERVOIR TO REMOVE DEVELOPED AREA STORAGE
117           RS       1    STOR       0       0
118           SV       0      10      20      30   31.47   35.74      40
119           SE     100     101     102     103     104   104.5     105
120           SQ       0       0       0       0       0    1500    3000
121           SE     100     101     102     103     104   104.5     105
122           KO       2

123           KK   REME
124           KM   DIVERT FLOW TO AGUA FRIA RIVER
125           KM   FOR MODELING PURPOSES WE NEED DIVERSION FLOW AT THOMAS RD
126           KM   AND 115TH (SOUTH) TO ACT AS MAINSTREAM.
127           DT   DVRTE
128           DI       0   11.59   29.74   66.65  130.38  217.20  266.94  320.62  378.13
129           DQ       0   11.59   25.84   46.59   85.38  139.94  171.07  204.60  240.47
130           KO       2

131           KK   RTEE2F
132           KM   ROUTE HYDROGRAPH TO SUB BASIN F
133           RS       4    FLOW       0       0
134           RC    .025    .015    .025    5300   .0015     103
135           RX     100     150     152     156     158     185     212     216
136           RY     102     101     100     102     101  101.54     101     103
137           KO       2

138           KK   F
139           KM   SUB-BASIN F
140           KM   6-HOUR RAINFALL, PATTERN NO. 2.10 WAS USED TO FIND TC & R FOR THIS BASIN
141           KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .971
142           KM     L =  .99  Kb = .051  Adj. Slope =  6.9
143           BA    .201
144           LG    .500    .150   7.100    .096    .000
145           UC   1.208   1.133
```

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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 146          UA       0       5      16      30      65      77      84      90      94      97
 147          UA     100
 148          KO       2

 149          KK   RTEF
 150          KM   ROUTE SUB BASIN F THROUGH RESERVOIR TO REMOVE DEVELOPED AREA STORAGE
 151          RS       1    STOR       0       0
 152          SV       0       2       4       6    6.83       8
 153          SE     100     101     102     103     104     105
 154          SQ       0       0       0       0       0     250
 155          SE     100     101     102     103     104     105
 156          KO       2

 157          KK   COMBINEALL2F
 158          KM   COMBINE HYDROGRAPHS E & F WITH PREVIOUS
 159          HC       3
 160          KO       2

 161          KK   REMF
 162          KM   DIVERT FLOW TO 115TH STREET SOUTH FROM F
 163          DT   DIVF
 164          DI       0   12.53   21.41   51.01   99.53  166.81  265.04  402.80  582.53
 165          DQ       0       0     .13    2.05    8.89   23.21   61.68  117.16  185.80
 166          KO       2

 167          KK   RTEF2G
 168          KM   ROUTE COMBINED HYDROGRAPH TO SUB BASIN G
 169          RS       2    FLOW       0       0
 170          RC    .025    .015    .025    4200   .0026  103.76
 171          RX     100     150     152     156     158     202     246     248
 172          RY     102     101     100     102     101  101.88  102.76  103.76
 173          KO       2
 174          ZZ
```

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****************************************
*                                      *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)  *
*          SEPTEMBER 1990              *
*           VERSION 4.0                *
*                                      *
* RUN DATE  06/01/1998  TIME  14:47:15 *
*                                      *
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****************************************
*                                      *
*   U.S. ARMY CORPS OF ENGINEERS       *
*   HYDROLOGIC ENGINEERING CENTER      *
*         609 SECOND STREET            *
*      DAVIS, CALIFORNIA 95616         *
*          (916) 756-1104              *
*                                      *
****************************************
```

model #7

```
4 IO          OUTPUT CONTROL VARIABLES
                    IPRNT          3  PRINT CONTROL
                    IPLOT          0  PLOT CONTROL
                    QSCAL         0.  HYDROGRAPH PLOT SCALE

  IT          HYDROGRAPH TIME DATA
                     NMIN          5  MINUTES IN COMPUTATION INTERVAL
                    IDATE      1   0  STARTING DATE
                    ITIME       0000  STARTING TIME
                       NQ        300  NUMBER OF HYDROGRAPH ORDINATES
                   NDDATE      2   0  ENDING DATE
                   NDTIME       0055  ENDING TIME
                    ICENT         19  CENTURY MARK

               COMPUTATION INTERVAL     .08 HOURS
                    TOTAL TIME BASE   24.92 HOURS

        ENGLISH UNITS
             DRAINAGE AREA          SQUARE MILES
             PRECIPITATION DEPTH    INCHES
             LENGTH, ELEVATION      FEET
             FLOW                   CUBIC FEET PER SECOND
             STORAGE VOLUME         ACRE-FEET
             SURFACE AREA           ACRES
             TEMPERATURE            DEGREES FAHRENHEIT
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*** ***

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          **************
          *            *
5 KK      *     A      *
          *            *
          **************
```

SUB-BASIN A
6-HOUR RAINFALL, PATTERN NO. 2.13 WAS USED TO FIND TC & R FOR THIS BASIN
THIS BASIN USED RAINFALL REDUCTION FACTOR OF .970
L = 1.00 Kb = .028 Adj. Slope = 7.0
RAINFALL DEPTH OF 2.00 WAS SPACIALLY REDUCED AS SHOWN BY THE PB RECORD
THE FOLLOWING PC RECORD USED A 6-HOUR STORM WITH A PATTERN No. OF 2.04

```
11 IN        TIME DATA FOR INPUT TIME SERIES
                  JXMIN          15  TIME INTERVAL IN MINUTES
                 JXDATE      1    0  STARTING DATE
                 JXTIME           0  STARTING TIME

22 KO        OUTPUT CONTROL VARIABLES
                  IPRNT           2  PRINT CONTROL
                  IPLOT           0  PLOT CONTROL
                  QSCAL          0.  HYDROGRAPH PLOT SCALE

           SUBBASIN RUNOFF DATA

10 BA        SUBBASIN CHARACTERISTICS
                  TAREA         .25  SUBBASIN AREA

             PRECIPITATION DATA

14 PB             STORM        1.94  BASIN TOTAL PRECIPITATION

14 PI          INCREMENTAL PRECIPITATION PATTERN
                 .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                 .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                 .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                 .00       .00       .00       .01       .01       .01       .01       .01       .01       .03
                 .03       .03       .06       .06       .06       .08       .08       .08       .05       .05
                 .05       .02       .02       .02       .01       .01       .01       .00       .00       .00
                 .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                 .00       .00

18 LG        GREEN AND AMPT LOSS RATE
                 STRTL         .23  STARTING LOSS
                   DTH         .15  MOISTURE DEFICIT
                  PSIF        8.50  WETTING FRONT SUCTION
                 XKSAT         .06  HYDRAULIC CONDUCTIVITY
                 RTIMP       27.00  PERCENT IMPERVIOUS AREA

19 UC        CLARK UNITGRAPH
                    TC         .98  TIME OF CONCENTRATION
                     R         .79  STORAGE COEFFICIENT

   UA        ACCUMULATED-AREA VS. TIME,  11 ORDINATES
                  .0       5.0      16.0      30.0      65.0      77.0      84.0      90.0      94.0      97.0
               100.0

                                                  ***

                                        UNIT HYDROGRAPH PARAMETERS
                                  CLARK   TC=   .98 HR,       R=   .79 HR
                                 SNYDER   TP=   .57 HR,      CP=   .43

                                        UNIT HYDROGRAPH
                                   56 END-OF-PERIOD ORDINATES
            4.       16.       34.       61.       99.      122.      125.      123.      120.      114.
          108.      102.       93.       84.       76.       68.       61.       55.       50.       45.
           40.       36.       33.       29.       26.       24.       21.       19.       17.       16.
           14.       13.       11.       10.        9.        8.        7.        7.        6.        5.
            5.        4.        4.        4.        3.        3.        3.        2.        2.        2.
            2.        2.        1.        1.        1.        1.
```

****

HYDROGRAPH AT STATION A

DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1		0000	1	.00	.00	.00	0.	1		1230	151	.00	.00	.00	0.
1		0005	2	.01	.00	.00	0.	1		1235	152	.00	.00	.00	0.
1		0010	3	.01	.00	.00	0.	1		1240	153	.00	.00	.00	0.
1		0015	4	.01	.00	.00	0.	1		1245	154	.00	.00	.00	0.
1		0020	5	.00	.00	.00	0.	1		1250	155	.00	.00	.00	0.
1		0025	6	.00	.00	.00	0.	1		1255	156	.00	.00	.00	0.
1		0030	7	.00	.00	.00	1.	1		1300	157	.00	.00	.00	0.
1		0035	8	.01	.00	.00	1.	1		1305	158	.00	.00	.00	0.
1		0040	9	.01	.00	.00	1.	1		1310	159	.00	.00	.00	0.
1		0045	10	.01	.00	.00	1.	1		1315	160	.00	.00	.00	0.
1		0050	11	.01	.00	.00	1.	1		1320	161	.00	.00	.00	0.
1		0055	12	.01	.00	.00	1.	1		1325	162	.00	.00	.00	0.
1		0100	13	.01	.00	.00	2.	1		1330	163	.00	.00	.00	0.
1		0105	14	.01	.00	.00	2.	1		1335	164	.00	.00	.00	0.
1		0110	15	.01	.00	.00	2.	1		1340	165	.00	.00	.00	0.
1		0115	16	.01	.00	.00	2.	1		1345	166	.00	.00	.00	0.
1		0120	17	.01	.00	.00	2.	1		1350	167	.00	.00	.00	0.
1		0125	18	.01	.00	.00	2.	1		1355	168	.00	.00	.00	0.
1		0130	19	.01	.00	.00	2.	1		1400	169	.00	.00	.00	0.
1		0135	20	.01	.00	.00	2.	1		1405	170	.00	.00	.00	0.
1		0140	21	.01	.00	.00	2.	1		1410	171	.00	.00	.00	0.
1		0145	22	.01	.00	.00	3.	1		1415	172	.00	.00	.00	0.
1		0150	23	.01	.00	.00	3.	1		1420	173	.00	.00	.00	0.
1		0155	24	.01	.00	.00	3.	1		1425	174	.00	.00	.00	0.
1		0200	25	.01	.00	.00	3.	1		1430	175	.00	.00	.00	0.
1		0205	26	.01	.00	.00	3.	1		1435	176	.00	.00	.00	0.
1		0210	27	.01	.00	.00	3.	1		1440	177	.00	.00	.00	0.
1		0215	28	.01	.00	.00	3.	1		1445	178	.00	.00	.00	0.
1		0220	29	.01	.01	.00	3.	1		1450	179	.00	.00	.00	0.
1		0225	30	.01	.01	.00	3.	1		1455	180	.00	.00	.00	0.
1		0230	31	.01	.01	.00	3.	1		1500	181	.00	.00	.00	0.
1		0235	32	.01	.01	.00	3.	1		1505	182	.00	.00	.00	0.
1		0240	33	.01	.01	.00	3.	1		1510	183	.00	.00	.00	0.
1		0245	34	.01	.01	.00	3.	1		1515	184	.00	.00	.00	0.
1		0250	35	.01	.01	.00	3.	1		1520	185	.00	.00	.00	0.
1		0255	36	.01	.01	.00	3.	1		1525	186	.00	.00	.00	0.
1		0300	37	.01	.01	.00	4.	1		1530	187	.00	.00	.00	0.
1		0305	38	.03	.02	.01	4.	1		1535	188	.00	.00	.00	0.
1		0310	39	.03	.02	.01	4.	1		1540	189	.00	.00	.00	0.
1		0315	40	.03	.02	.01	4.	1		1545	190	.00	.00	.00	0.
1		0320	41	.06	.04	.02	5.	1		1550	191	.00	.00	.00	0.
1		0325	42	.06	.03	.03	6.	1		1555	192	.00	.00	.00	0.
1		0330	43	.06	.03	.03	7.	1		1600	193	.00	.00	.00	0.
1		0335	44	.13	.02	.10	9.	1		1605	194	.00	.00	.00	0.
1		0340	45	.13	.02	.11	13.	1		1610	195	.00	.00	.00	0.
1		0345	46	.13	.02	.11	18.	1		1615	196	.00	.00	.00	0.
1		0350	47	.15	.02	.14	26.	1		1620	197	.00	.00	.00	0.
1		0355	48	.15	.02	.14	38.	1		1625	198	.00	.00	.00	0.
1		0400	49	.15	.02	.14	51.	1		1630	199	.00	.00	.00	0.
1		0405	50	.09	.02	.08	65.	1		1635	200	.00	.00	.00	0.
1		0410	51	.09	.01	.08	80.	1		1640	201	.00	.00	.00	0.
1		0415	52	.09	.01	.08	93.	1		1645	202	.00	.00	.00	0.
1		0420	53	.04	.01	.03	104.	1		1650	203	.00	.00	.00	0.

1	0425	54	.04	.01	.03	112.	*	1	1655	204	.00	.00	.00	0.
1	0430	55	.04	.01	.03	117.	*	1	1700	205	.00	.00	.00	0.
1	0435	56	.03	.01	.01	119.	*	1	1705	206	.00	.00	.00	0.
1	0440	57	.03	.01	.01	118.	*	1	1710	207	.00	.00	.00	0.
1	0445	58	.03	.01	.01	114.	*	1	1715	208	.00	.00	.00	0.
1	0450	59	.01	.01	.00	110.	*	1	1720	209	.00	.00	.00	0.
1	0455	60	.01	.01	.00	104.	*	1	1725	210	.00	.00	.00	0.
1	0500	61	.01	.01	.00	98.	*	1	1730	211	.00	.00	.00	0.
1	0505	62	.01	.01	.00	91.	*	1	1735	212	.00	.00	.00	0.
1	0510	63	.01	.01	.00	84.	*	1	1740	213	.00	.00	.00	0.
1	0515	64	.01	.01	.00	77.	*	1	1745	214	.00	.00	.00	0.
1	0520	65	.01	.01	.00	70.	*	1	1750	215	.00	.00	.00	0.
1	0525	66	.01	.01	.00	64.	*	1	1755	216	.00	.00	.00	0.
1	0530	67	.01	.01	.00	58.	*	1	1800	217	.00	.00	.00	0.
1	0535	68	.01	.01	.00	53.	*	1	1805	218	.00	.00	.00	0.
1	0540	69	.01	.01	.00	48.	*	1	1810	219	.00	.00	.00	0.
1	0545	70	.01	.01	.00	44.	*	1	1815	220	.00	.00	.00	0.
1	0550	71	.01	.01	.00	40.	*	1	1820	221	.00	.00	.00	0.
1	0555	72	.01	.01	.00	36.	*	1	1825	222	.00	.00	.00	0.
1	0600	73	.01	.01	.00	33.	*	1	1830	223	.00	.00	.00	0.
1	0605	74	.00	.00	.00	30.	*	1	1835	224	.00	.00	.00	0.
1	0610	75	.00	.00	.00	28.	*	1	1840	225	.00	.00	.00	0.
1	0615	76	.00	.00	.00	25.	*	1	1845	226	.00	.00	.00	0.
1	0620	77	.00	.00	.00	23.	*	1	1850	227	.00	.00	.00	0.
1	0625	78	.00	.00	.00	21.	*	1	1855	228	.00	.00	.00	0.
1	0630	79	.00	.00	.00	19.	*	1	1900	229	.00	.00	.00	0.
1	0635	80	.00	.00	.00	17.	*	1	1905	230	.00	.00	.00	0.
1	0640	81	.00	.00	.00	15.	*	1	1910	231	.00	.00	.00	0.
1	0645	82	.00	.00	.00	14.	*	1	1915	232	.00	.00	.00	0.
1	0650	83	.00	.00	.00	13.	*	1	1920	233	.00	.00	.00	0.
1	0655	84	.00	.00	.00	11.	*	1	1925	234	.00	.00	.00	0.
1	0700	85	.00	.00	.00	10.	*	1	1930	235	.00	.00	.00	0.
1	0705	86	.00	.00	.00	9.	*	1	1935	236	.00	.00	.00	0.
1	0710	87	.00	.00	.00	8.	*	1	1940	237	.00	.00	.00	0.
1	0715	88	.00	.00	.00	7.	*	1	1945	238	.00	.00	.00	0.
1	0720	89	.00	.00	.00	7.	*	1	1950	239	.00	.00	.00	0.
1	0725	90	.00	.00	.00	6.	*	1	1955	240	.00	.00	.00	0.
1	0730	91	.00	.00	.00	5.	*	1	2000	241	.00	.00	.00	0.
1	0735	92	.00	.00	.00	5.	*	1	2005	242	.00	.00	.00	0.
1	0740	93	.00	.00	.00	4.	*	1	2010	243	.00	.00	.00	0.
1	0745	94	.00	.00	.00	4.	*	1	2015	244	.00	.00	.00	0.
1	0750	95	.00	.00	.00	4.	*	1	2020	245	.00	.00	.00	0.
1	0755	96	.00	.00	.00	3.	*	1	2025	246	.00	.00	.00	0.
1	0800	97	.00	.00	.00	3.	*	1	2030	247	.00	.00	.00	0.
1	0805	98	.00	.00	.00	3.	*	1	2035	248	.00	.00	.00	0.
1	0810	99	.00	.00	.00	2.	*	1	2040	249	.00	.00	.00	0.
1	0815	100	.00	.00	.00	2.	*	1	2045	250	.00	.00	.00	0.
1	0820	101	.00	.00	.00	2.	*	1	2050	251	.00	.00	.00	0.
1	0825	102	.00	.00	.00	1.	*	1	2055	252	.00	.00	.00	0.
1	0830	103	.00	.00	.00	1.	*	1	2100	253	.00	.00	.00	0.
1	0835	104	.00	.00	.00	1.	*	1	2105	254	.00	.00	.00	0.
1	0840	105	.00	.00	.00	1.	*	1	2110	255	.00	.00	.00	0.
1	0845	106	.00	.00	.00	1.	*	1	2115	256	.00	.00	.00	0.
1	0850	107	.00	.00	.00	0.	*	1	2120	257	.00	.00	.00	0.
1	0855	108	.00	.00	.00	0.	*	1	2125	258	.00	.00	.00	0.
1	0900	109	.00	.00	.00	0.	*	1	2130	259	.00	.00	.00	0.
1	0905	110	.00	.00	.00	0.	*	1	2135	260	.00	.00	.00	0.
1	0910	111	.00	.00	.00	0.	*	1	2140	261	.00	.00	.00	0.
1	0915	112	.00	.00	.00	0.	*	1	2145	262	.00	.00	.00	0.
1	0920	113	.00	.00	.00	0.	*	1	2150	263	.00	.00	.00	0.

1	0925	114	.00	.00	.00	0.	*	1	2155	264	.00	.00	.00	0.
1	0930	115	.00	.00	.00	0.	*	1	2200	265	.00	.00	.00	0.
1	0935	116	.00	.00	.00	0.	*	1	2205	266	.00	.00	.00	0.
1	0940	117	.00	.00	.00	0.	*	1	2210	267	.00	.00	.00	0.
1	0945	118	.00	.00	.00	0.	*	1	2215	268	.00	.00	.00	0.
1	0950	119	.00	.00	.00	0.	*	1	2220	269	.00	.00	.00	0.
1	0955	120	.00	.00	.00	0.	*	1	2225	270	.00	.00	.00	0.
1	1000	121	.00	.00	.00	0.	*	1	2230	271	.00	.00	.00	0.
1	1005	122	.00	.00	.00	0.	*	1	2235	272	.00	.00	.00	0.
1	1010	123	.00	.00	.00	0.	*	1	2240	273	.00	.00	.00	0.
1	1015	124	.00	.00	.00	0.	*	1	2245	274	.00	.00	.00	0.
1	1020	125	.00	.00	.00	0.	*	1	2250	275	.00	.00	.00	0.
1	1025	126	.00	.00	.00	0.	*	1	2255	276	.00	.00	.00	0.
1	1030	127	.00	.00	.00	0.	*	1	2300	277	.00	.00	.00	0.
1	1035	128	.00	.00	.00	0.	*	1	2305	278	.00	.00	.00	0.
1	1040	129	.00	.00	.00	0.	*	1	2310	279	.00	.00	.00	0.
1	1045	130	.00	.00	.00	0.	*	1	2315	280	.00	.00	.00	0.
1	1050	131	.00	.00	.00	0.	*	1	2320	281	.00	.00	.00	0.
1	1055	132	.00	.00	.00	0.	*	1	2325	282	.00	.00	.00	0.
1	1100	133	.00	.00	.00	0.	*	1	2330	283	.00	.00	.00	0.
1	1105	134	.00	.00	.00	0.	*	1	2335	284	.00	.00	.00	0.
1	1110	135	.00	.00	.00	0.	*	1	2340	285	.00	.00	.00	0.
1	1115	136	.00	.00	.00	0.	*	1	2345	286	.00	.00	.00	0.
1	1120	137	.00	.00	.00	0.	*	1	2350	287	.00	.00	.00	0.
1	1125	138	.00	.00	.00	0.	*	1	2355	288	.00	.00	.00	0.
1	1130	139	.00	.00	.00	0.	*	2	0000	289	.00	.00	.00	0.
1	1135	140	.00	.00	.00	0.	*	2	0005	290	.00	.00	.00	0.
1	1140	141	.00	.00	.00	0.	*	2	0010	291	.00	.00	.00	0.
1	1145	142	.00	.00	.00	0.	*	2	0015	292	.00	.00	.00	0.
1	1150	143	.00	.00	.00	0.	*	2	0020	293	.00	.00	.00	0.
1	1155	144	.00	.00	.00	0.	*	2	0025	294	.00	.00	.00	0.
1	1200	145	.00	.00	.00	0.	*	2	0030	295	.00	.00	.00	0.
1	1205	146	.00	.00	.00	0.	*	2	0035	296	.00	.00	.00	0.
1	1210	147	.00	.00	.00	0.	*	2	0040	297	.00	.00	.00	0.
1	1215	148	.00	.00	.00	0.	*	2	0045	298	.00	.00	.00	0.
1	1220	149	.00	.00	.00	0.	*	2	0050	299	.00	.00	.00	0.
1	1225	150	.00	.00	.00	0.	*	2	0055	300	.00	.00	.00	0.
							*							

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TOTAL RAINFALL = 1.94, TOTAL LOSS = .66, TOTAL EXCESS = 1.28

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)					
		(CFS)				
119.	4.58		34.	9.	8.	8.
		(INCHES)	1.248	1.274	1.274	1.274
		(AC-FT)	17.	17.	17.	17.

CUMULATIVE AREA = .25 SQ MI

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23 KK     *     RTEA2  *     B
          *            *
          **************
                    CHANNEL ROUTING TO SUB BASIN B NORMAL DEPTH CHANNEL ROUTING

29 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          2  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL         0.  HYDROGRAPH PLOT SCALE

            HYDROGRAPH ROUTING DATA

25 RS          STORAGE ROUTING
                     NSTPS          4  NUMBER OF SUBREACHES
                      ITYP       FLOW  TYPE OF INITIAL CONDITION
                    RSVRIC        .00  INITIAL CONDITION
                         X        .00 WORKING R AND D COEFFICIENT

26 RC          NORMAL DEPTH CHANNEL
                       ANL       .025  LEFT OVERBANK N-VALUE
                      ANCH       .015  MAIN CHANNEL N-VALUE
                       ANR       .025  RIGHT OVERBANK N-VALUE
                     RLNTH      2650.  REACH LENGTH
                       SEL      .0006  ENERGY SLOPE
                     ELMAX      103.0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                   CROSS-SECTION DATA
                        --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
28 RY        ELEVATION   102.00   101.00   100.00   102.00   101.00   101.54   101.00   103.00
27 RX        DISTANCE    100.00   150.00   152.00   156.00   158.00   185.00   212.00   216.00

                                                  ***

                                   COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

          STORAGE      .00      .00      .01      .03      .05      .08      .11      .20      .51     1.07
          OUTFLOW      .00      .02      .11      .31      .67     1.21     1.97     2.01     5.24    12.82
        ELEVATION   100.00   100.16   100.32   100.47   100.63   100.79   100.95   101.11   101.26   101.42

          STORAGE     1.85     2.76     3.76     4.83     5.93     7.03     8.13     9.24    10.35    11.46
          OUTFLOW    26.75    49.04    77.50   113.23   157.28   207.05   262.21   322.53   387.81   457.85
        ELEVATION   101.58   101.74   101.89   102.05   102.21   102.37   102.53   102.68   102.84   103.00

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                                   HYDROGRAPH AT STATION    RTEA2

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                                        *                                        *
DA MON HRMN ORD  OUTFLOW  STORAGE   STAGE * DA MON HRMN ORD  OUTFLOW  STORAGE   STAGE * DA MON HRMN ORD  OUTFLOW  STORAGE   STAGE
                                        *                                        *
 1    0000   1      0.       .0   100.0 *  1    0820 101      7.       .2   101.3 *  1    1640 201      0.       .0   100.0
 1    0005   2      0.       .0   100.0 *  1    0825 102      6.       .1   101.3 *  1    1645 202      0.       .0   100.0
 1    0010   3      0.       .0   100.0 *  1    0830 103      6.       .1   101.3 *  1    1650 203      0.       .0   100.0
 1    0015   4      0.       .0   100.0 *  1    0835 104      5.       .1   101.3 *  1    1655 204      0.       .0   100.0
 1    0020   5      0.       .0   100.0 *  1    0840 105      5.       .1   101.2 *  1    1700 205      0.       .0   100.0
 1    0025   6      0.       .0   100.0 *  1    0845 106      5.       .1   101.2 *  1    1705 206      0.       .0   100.0
 1    0030   7      0.       .0   100.0 *  1    0850 107      4.       .1   101.2 *  1    1710 207      0.       .0   100.0
 1    0035   8      0.       .0   100.0 *  1    0855 108      4.       .1   101.2 *  1    1715 208      0.       .0   100.0
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1	0040	9	0.	.0	100.1	*	1	0900	109	4.	.1	101.2	*	1	1720	209	0.	.0	100.0
1	0045	10	0.	.0	100.1	*	1	0905	110	3.	.1	101.2	*	1	1725	210	0.	.0	100.0
1	0050	11	0.	.0	100.2	*	1	0910	111	3.	.1	101.2	*	1	1730	211	0.	.0	100.0
1	0055	12	0.	.0	100.3	*	1	0915	112	3.	.1	101.2	*	1	1735	212	0.	.0	100.0
1	0100	13	0.	.0	100.4	*	1	0920	113	3.	.1	101.1	*	1	1740	213	0.	.0	100.0
1	0105	14	0.	.0	100.5	*	1	0925	114	3.	.1	101.1	*	1	1745	214	0.	.0	100.0
1	0110	15	1.	.0	100.6	*	1	0930	115	2.	.1	101.1	*	1	1750	215	0.	.0	100.0
1	0115	16	1.	.0	100.6	*	1	0935	116	2.	.1	101.1	*	1	1755	216	0.	.0	100.0
1	0120	17	1.	.0	100.7	*	1	0940	117	2.	.0	101.1	*	1	1800	217	0.	.0	100.0
1	0125	18	1.	.0	100.8	*	1	0945	118	2.	.0	101.0	*	1	1805	218	0.	.0	100.0
1	0130	19	1.	.0	100.8	*	1	0950	119	2.	.0	100.9	*	1	1810	219	0.	.0	100.0
1	0135	20	2.	.0	100.9	*	1	0955	120	1.	.0	100.8	*	1	1815	220	0.	.0	100.0
1	0140	21	2.	.0	100.9	*	1	1000	121	1.	.0	100.7	*	1	1820	221	0.	.0	100.0
1	0145	22	2.	.0	100.9	*	1	1005	122	1.	.0	100.6	*	1	1825	222	0.	.0	100.0
1	0150	23	2.	.0	100.9	*	1	1010	123	0.	.0	100.5	*	1	1830	223	0.	.0	100.0
1	0155	24	2.	.0	100.9	*	1	1015	124	0.	.0	100.5	*	1	1835	224	0.	.0	100.0
1	0200	25	2.	.0	100.9	*	1	1020	125	0.	.0	100.4	*	1	1840	225	0.	.0	100.0
1	0205	26	2.	.0	100.9	*	1	1025	126	0.	.0	100.4	*	1	1845	226	0.	.0	100.0
1	0210	27	2.	.0	100.9	*	1	1030	127	0.	.0	100.4	*	1	1850	227	0.	.0	100.0
1	0215	28	2.	.0	100.9	*	1	1035	128	0.	.0	100.3	*	1	1855	228	0.	.0	100.0
1	0220	29	2.	.0	100.9	*	1	1040	129	0.	.0	100.3	*	1	1900	229	0.	.0	100.0
1	0225	30	2.	.0	100.9	*	1	1045	130	0.	.0	100.3	*	1	1905	230	0.	.0	100.0
1	0230	31	2.	.0	100.9	*	1	1050	131	0.	.0	100.3	*	1	1910	231	0.	.0	100.0
1	0235	32	2.	.0	100.9	*	1	1055	132	0.	.0	100.3	*	1	1915	232	0.	.0	100.0
1	0240	33	2.	.0	100.9	*	1	1100	133	0.	.0	100.3	*	1	1920	233	0.	.0	100.0
1	0245	34	2.	.0	100.9	*	1	1105	134	0.	.0	100.2	*	1	1925	234	0.	.0	100.0
1	0250	35	2.	.0	100.9	*	1	1110	135	0.	.0	100.2	*	1	1930	235	0.	.0	100.0
1	0255	36	2.	.0	100.9	*	1	1115	136	0.	.0	100.2	*	1	1935	236	0.	.0	100.0
1	0300	37	2.	.0	101.0	*	1	1120	137	0.	.0	100.2	*	1	1940	237	0.	.0	100.0
1	0305	38	2.	.0	101.0	*	1	1125	138	0.	.0	100.2	*	1	1945	238	0.	.0	100.0
1	0310	39	2.	.0	101.0	*	1	1130	139	0.	.0	100.2	*	1	1950	239	0.	.0	100.0
1	0315	40	2.	.0	101.0	*	1	1135	140	0.	.0	100.2	*	1	1955	240	0.	.0	100.0
1	0320	41	2.	.0	101.0	*	1	1140	141	0.	.0	100.2	*	1	2000	241	0.	.0	100.0
1	0325	42	2.	.0	101.0	*	1	1145	142	0.	.0	100.2	*	1	2005	242	0.	.0	100.0
1	0330	43	2.	.0	101.1	*	1	1150	143	0.	.0	100.2	*	1	2010	243	0.	.0	100.0
1	0335	44	2.	.1	101.1	*	1	1155	144	0.	.0	100.2	*	1	2015	244	0.	.0	100.0
1	0340	45	2.	.1	101.1	*	1	1200	145	0.	.0	100.2	*	1	2020	245	0.	.0	100.0
1	0345	46	3.	.1	101.1	*	1	1205	146	0.	.0	100.2	*	1	2025	246	0.	.0	100.0
1	0350	47	3.	.1	101.2	*	1	1210	147	0.	.0	100.1	*	1	2030	247	0.	.0	100.0
1	0355	48	4.	.1	101.2	*	1	1215	148	0.	.0	100.1	*	1	2035	248	0.	.0	100.0
1	0400	49	5.	.1	101.2	*	1	1220	149	0.	.0	100.1	*	1	2040	249	0.	.0	100.0
1	0405	50	6.	.1	101.3	*	1	1225	150	0.	.0	100.1	*	1	2045	250	0.	.0	100.0
1	0410	51	9.	.2	101.3	*	1	1230	151	0.	.0	100.1	*	1	2050	251	0.	.0	100.0
1	0415	52	15.	.3	101.4	*	1	1235	152	0.	.0	100.1	*	1	2055	252	0.	.0	100.0
1	0420	53	24.	.4	101.6	*	1	1240	153	0.	.0	100.1	*	1	2100	253	0.	.0	100.0
1	0425	54	39.	.6	101.7	*	1	1245	154	0.	.0	100.1	*	1	2105	254	0.	.0	100.0
1	0430	55	56.	.8	101.8	*	1	1250	155	0.	.0	100.1	*	1	2110	255	0.	.0	100.0
1	0435	56	73.	.9	101.9	*	1	1255	156	0.	.0	100.1	*	1	2115	256	0.	.0	100.0
1	0440	57	89.	1.0	101.9	*	1	1300	157	0.	.0	100.1	*	1	2120	257	0.	.0	100.0
1	0445	58	100.	1.1	102.0	*	1	1305	158	0.	.0	100.1	*	1	2125	258	0.	.0	100.0
1	0450	59	107.	1.2	102.0	*	1	1310	159	0.	.0	100.1	*	1	2130	259	0.	.0	100.0
1	0455	60	111.	1.2	102.0	*	1	1315	160	0.	.0	100.1	*	1	2135	260	0.	.0	100.0
1	0500	61	112.	1.2	102.0	*	1	1320	161	0.	.0	100.1	*	1	2140	261	0.	.0	100.0
1	0505	62	111.	1.2	102.0	*	1	1325	162	0.	.0	100.0	*	1	2145	262	0.	.0	100.0
1	0510	63	108.	1.2	102.0	*	1	1330	163	0.	.0	100.0	*	1	2150	263	0.	.0	100.0
1	0515	64	104.	1.1	102.0	*	1	1335	164	0.	.0	100.0	*	1	2155	264	0.	.0	100.0
1	0520	65	98.	1.1	102.0	*	1	1340	165	0.	.0	100.0	*	1	2200	265	0.	.0	100.0
1	0525	66	92.	1.1	102.0	*	1	1345	166	0.	.0	100.0	*	1	2205	266	0.	.0	100.0
1	0530	67	86.	1.0	101.9	*	1	1350	167	0.	.0	100.0	*	1	2210	267	0.	.0	100.0
1	0535	68	80.	1.0	101.9	*	1	1355	168	0.	.0	100.0	*	1	2215	268	0.	.0	100.0

1	0540	69	75.	.9	101.9 *	1	1400	169	0.	.0	100.0 *	1	2220	269	0.	.0	100.0
1	0545	70	70.	.9	101.9 *	1	1405	170	0.	.0	100.0 *	1	2225	270	0.	.0	100.0
1	0550	71	65.	.8	101.8 *	1	1410	171	0.	.0	100.0 *	1	2230	271	0.	.0	100.0
1	0555	72	60.	.8	101.8 *	1	1415	172	0.	.0	100.0 *	1	2235	272	0.	.0	100.0
1	0600	73	55.	.7	101.8 *	1	1420	173	0.	.0	100.0 *	1	2240	273	0.	.0	100.0
1	0605	74	50.	.7	101.7 *	1	1425	174	0.	.0	100.0 *	1	2245	274	0.	.0	100.0
1	0610	75	47.	.7	101.7 *	1	1430	175	0.	.0	100.0 *	1	2250	275	0.	.0	100.0
1	0615	76	44.	.6	101.7 *	1	1435	176	0.	.0	100.0 *	1	2255	276	0.	.0	100.0
1	0620	77	40.	.6	101.7 *	1	1440	177	0.	.0	100.0 *	1	2300	277	0.	.0	100.0
1	0625	78	37.	.6	101.7 *	1	1445	178	0.	.0	100.0 *	1	2305	278	0.	.0	100.0
1	0630	79	34.	.5	101.6 *	1	1450	179	0.	.0	100.0 *	1	2310	279	0.	.0	100.0
1	0635	80	31.	.5	101.6 *	1	1455	180	0.	.0	100.0 *	1	2315	280	0.	.0	100.0
1	0640	81	29.	.5	101.6 *	1	1500	181	0.	.0	100.0 *	1	2320	281	0.	.0	100.0
1	0645	82	27.	.5	101.6 *	1	1505	182	0.	.0	100.0 *	1	2325	282	0.	.0	100.0
1	0650	83	26.	.4	101.6 *	1	1510	183	0.	.0	100.0 *	1	2330	283	0.	.0	100.0
1	0655	84	24.	.4	101.5 *	1	1515	184	0.	.0	100.0 *	1	2335	284	0.	.0	100.0
1	0700	85	23.	.4	101.5 *	1	1520	185	0.	.0	100.0 *	1	2340	285	0.	.0	100.0
1	0705	86	21.	.4	101.5 *	1	1525	186	0.	.0	100.0 *	1	2345	286	0.	.0	100.0
1	0710	87	19.	.4	101.5 *	1	1530	187	0.	.0	100.0 *	1	2350	287	0.	.0	100.0
1	0715	88	18.	.3	101.5 *	1	1535	188	0.	.0	100.0 *	1	2355	288	0.	.0	100.0
1	0720	89	16.	.3	101.5 *	1	1540	189	0.	.0	100.0 *	2	0000	289	0.	.0	100.0
1	0725	90	15.	.3	101.4 *	1	1545	190	0.	.0	100.0 *	2	0005	290	0.	.0	100.0
1	0730	91	14.	.3	101.4 *	1	1550	191	0.	.0	100.0 *	2	0010	291	0.	.0	100.0
1	0735	92	13.	.3	101.4 *	1	1555	192	0.	.0	100.0 *	2	0015	292	0.	.0	100.0
1	0740	93	12.	.3	101.4 *	1	1600	193	0.	.0	100.0 *	2	0020	293	0.	.0	100.0
1	0745	94	11.	.2	101.4 *	1	1605	194	0.	.0	100.0 *	2	0025	294	0.	.0	100.0
1	0750	95	11.	.2	101.4 *	1	1610	195	0.	.0	100.0 *	2	0030	295	0.	.0	100.0
1	0755	96	10.	.2	101.4 *	1	1615	196	0.	.0	100.0 *	2	0035	296	0.	.0	100.0
1	0800	97	9.	.2	101.3 *	1	1620	197	0.	.0	100.0 *	2	0040	297	0.	.0	100.0
1	0805	98	8.	.2	101.3 *	1	1625	198	0.	.0	100.0 *	2	0045	298	0.	.0	100.0
1	0810	99	8.	.2	101.3 *	1	1630	199	0.	.0	100.0 *	2	0050	299	0.	.0	100.0
1	0815	100	7.	.2	101.3 *	1	1635	200	0.	.0	100.0 *	2	0055	300	0.	.0	100.0
					*						*						

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)					
		(CFS)				
112.	5.00		34.	9.	8.	8.
		(INCHES)	1.241	1.274	1.274	1.274
		(AC-FT)	17.	17.	17.	17.

< STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
(AC-FT)	(HR)				
1.	5.00	0.	0.	0.	0.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
(FEET)	(HR)				
102.05	5.00	101.52	100.53	100.51	100.51

CUMULATIVE AREA = .25 SQ MI

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              **************
              *            *
30 KK         *     B      *
              *            *
              **************
                          SUB-BASIN B
                          6-HOUR RAINFALL, PATTERN NO. 2.00 WAS USED TO FIND TC & R FOR THIS BASIN
                          THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .975
                            L = 1.00  Kb = .050  Adj. Slope =   6.0

40 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          2  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL         0.  HYDROGRAPH PLOT SCALE

             SUBBASIN RUNOFF DATA

35 BA          SUBBASIN CHARACTERISTICS
                     TAREA        .32  SUBBASIN AREA

               PRECIPITATION DATA

14 PB                STORM       1.94  BASIN TOTAL PRECIPITATION

14 PI            INCREMENTAL PRECIPITATION PATTERN
                    .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                    .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                    .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                    .00      .00      .00      .01      .01      .01      .01      .01      .01      .03
                    .03      .03      .06      .06      .06      .08      .08      .08      .05      .05
                    .05      .02      .02      .02      .01      .01      .01      .00      .00      .00
                    .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                    .00      .00

36 LG          GREEN AND AMPT LOSS RATE
                     STRTL        .50  STARTING LOSS
                       DTH        .24  MOISTURE DEFICIT
                      PSIF       6.40  WETTING FRONT SUCTION
                     XKSAT        .14  HYDRAULIC CONDUCTIVITY
                     RTIMP        .00  PERCENT IMPERVIOUS AREA

37 UC          CLARK UNITGRAPH
                        TC       1.41  TIME OF CONCENTRATION
                         R       1.04  STORAGE COEFFICIENT

38 UA          ACCUMULATED-AREA VS. TIME,  11 ORDINATES
                      .0       3.0       5.0       8.0      12.0      20.0      43.0      75.0      90.0      96.0
                   100.0

                                                  ***

                                          UNIT HYDROGRAPH PARAMETERS
                                     CLARK   TC=  1.41 HR,       R=  1.04 HR
                                    SNYDER   TP=  1.19 HR,      CP=   .73

                                          UNIT HYDROGRAPH
                                     77 END-OF-PERIOD ORDINATES
             2.       5.       7.       9.      12.      15.      18.      24.      36.      56.
            82.     109.     126.     130.     130.     126.     120.     113.     104.      96.
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89.	82.	76.	70.	64.	59.	55.	51.	47.	43.
40.	37.	34.	31.	29.	27.	25.	23.	21.	19.
18.	16.	15.	14.	13.	12.	11.	10.	9.	9.
8.	7.	7.	6.	6.	5.	5.	5.	4.	4.
4.	3.	3.	3.	3.	2.	2.	2.	2.	2.
2.	1.	1.	1.	1.	1.	1.			

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HYDROGRAPH AT STATION B

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1		0000	1	.00	.00	.00	0.	*	1		1230	151	.00	.00	.00	0.
1		0005	2	.01	.01	.00	0.	*	1		1235	152	.00	.00	.00	0.
1		0010	3	.01	.01	.00	0.	*	1		1240	153	.00	.00	.00	0.
1		0015	4	.01	.01	.00	0.	*	1		1245	154	.00	.00	.00	0.
1		0020	5	.00	.00	.00	0.	*	1		1250	155	.00	.00	.00	0.
1		0025	6	.00	.00	.00	0.	*	1		1255	156	.00	.00	.00	0.
1		0030	7	.00	.00	.00	0.	*	1		1300	157	.00	.00	.00	0.
1		0035	8	.01	.01	.00	0.	*	1		1305	158	.00	.00	.00	0.
1		0040	9	.01	.01	.00	0.	*	1		1310	159	.00	.00	.00	0.
1		0045	10	.01	.01	.00	0.	*	1		1315	160	.00	.00	.00	0.
1		0050	11	.01	.01	.00	0.	*	1		1320	161	.00	.00	.00	0.
1		0055	12	.01	.01	.00	0.	*	1		1325	162	.00	.00	.00	0.
1		0100	13	.01	.01	.00	0.	*	1		1330	163	.00	.00	.00	0.
1		0105	14	.01	.01	.00	0.	*	1		1335	164	.00	.00	.00	0.
1		0110	15	.01	.01	.00	0.	*	1		1340	165	.00	.00	.00	0.
1		0115	16	.01	.01	.00	0.	*	1		1345	166	.00	.00	.00	0.
1		0120	17	.01	.01	.00	0.	*	1		1350	167	.00	.00	.00	0.
1		0125	18	.01	.01	.00	0.	*	1		1355	168	.00	.00	.00	0.
1		0130	19	.01	.01	.00	0.	*	1		1400	169	.00	.00	.00	0.
1		0135	20	.01	.01	.00	0.	*	1		1405	170	.00	.00	.00	0.
1		0140	21	.01	.01	.00	0.	*	1		1410	171	.00	.00	.00	0.
1		0145	22	.01	.01	.00	0.	*	1		1415	172	.00	.00	.00	0.
1		0150	23	.01	.01	.00	0.	*	1		1420	173	.00	.00	.00	0.
1		0155	24	.01	.01	.00	0.	*	1		1425	174	.00	.00	.00	0.
1		0200	25	.01	.01	.00	0.	*	1		1430	175	.00	.00	.00	0.
1		0205	26	.01	.01	.00	0.	*	1		1435	176	.00	.00	.00	0.
1		0210	27	.01	.01	.00	0.	*	1		1440	177	.00	.00	.00	0.
1		0215	28	.01	.01	.00	0.	*	1		1445	178	.00	.00	.00	0.
1		0220	29	.01	.01	.00	0.	*	1		1450	179	.00	.00	.00	0.
1		0225	30	.01	.01	.00	0.	*	1		1455	180	.00	.00	.00	0.
1		0230	31	.01	.01	.00	0.	*	1		1500	181	.00	.00	.00	0.
1		0235	32	.01	.01	.00	0.	*	1		1505	182	.00	.00	.00	0.
1		0240	33	.01	.01	.00	0.	*	1		1510	183	.00	.00	.00	0.
1		0245	34	.01	.01	.00	0.	*	1		1515	184	.00	.00	.00	0.
1		0250	35	.01	.01	.00	0.	*	1		1520	185	.00	.00	.00	0.
1		0255	36	.01	.01	.00	0.	*	1		1525	186	.00	.00	.00	0.
1		0300	37	.01	.01	.00	0.	*	1		1530	187	.00	.00	.00	0.
1		0305	38	.03	.03	.00	0.	*	1		1535	188	.00	.00	.00	0.
1		0310	39	.03	.03	.00	0.	*	1		1540	189	.00	.00	.00	0.
1		0315	40	.03	.03	.00	0.	*	1		1545	190	.00	.00	.00	0.
1		0320	41	.06	.06	.00	0.	*	1		1550	191	.00	.00	.00	0.
1		0325	42	.06	.06	.00	0.	*	1		1555	192	.00	.00	.00	0.
1		0330	43	.06	.06	.00	0.	*	1		1600	193	.00	.00	.00	0.
1		0335	44	.13	.13	.00	0.	*	1		1605	194	.00	.00	.00	0.
1		0340	45	.13	.11	.02	0.	*	1		1610	195	.00	.00	.00	0.

1	0345	46	.13	.08	.05	0.	*	1	1615	196	.00	.00	.00	0.
1	0350	47	.15	.06	.09	1.	*	1	1620	197	.00	.00	.00	0.
1	0355	48	.15	.05	.10	1.	*	1	1625	198	.00	.00	.00	0.
1	0400	49	.15	.05	.10	2.	*	1	1630	199	.00	.00	.00	0.
1	0405	50	.09	.05	.05	3.	*	1	1635	200	.00	.00	.00	0.
1	0410	51	.09	.04	.05	4.	*	1	1640	201	.00	.00	.00	0.
1	0415	52	.09	.04	.05	5.	*	1	1645	202	.00	.00	.00	0.
1	0420	53	.04	.04	.00	7.	*	1	1650	203	.00	.00	.00	0.
1	0425	54	.04	.04	.00	10.	*	1	1655	204	.00	.00	.00	0.
1	0430	55	.04	.04	.01	14.	*	1	1700	205	.00	.00	.00	0.
1	0435	56	.03	.03	.00	20.	*	1	1705	206	.00	.00	.00	0.
1	0440	57	.03	.03	.00	27.	*	1	1710	207	.00	.00	.00	0.
1	0445	58	.03	.03	.00	37.	*	1	1715	208	.00	.00	.00	0.
1	0450	59	.01	.01	.00	45.	*	1	1720	209	.00	.00	.00	0.
1	0455	60	.01	.01	.00	53.	*	1	1725	210	.00	.00	.00	0.
1	0500	61	.01	.01	.00	58.	*	1	1730	211	.00	.00	.00	0.
1	0505	62	.01	.01	.00	61.	*	1	1735	212	.00	.00	.00	0.
1	0510	63	.01	.01	.00	62.	*	1	1740	213	.00	.00	.00	0.
1	0515	64	.01	.01	.00	62.	*	1	1745	214	.00	.00	.00	0.
1	0520	65	.01	.01	.00	59.	*	1	1750	215	.00	.00	.00	0.
1	0525	66	.01	.01	.00	56.	*	1	1755	216	.00	.00	.00	0.
1	0530	67	.01	.01	.00	53.	*	1	1800	217	.00	.00	.00	0.
1	0535	68	.01	.01	.00	49.	*	1	1805	218	.00	.00	.00	0.
1	0540	69	.01	.01	.00	45.	*	1	1810	219	.00	.00	.00	0.
1	0545	70	.01	.01	.00	42.	*	1	1815	220	.00	.00	.00	0.
1	0550	71	.01	.01	.00	39.	*	1	1820	221	.00	.00	.00	0.
1	0555	72	.01	.01	.00	36.	*	1	1825	222	.00	.00	.00	0.
1	0600	73	.01	.01	.00	33.	*	1	1830	223	.00	.00	.00	0.
1	0605	74	.00	.00	.00	30.	*	1	1835	224	.00	.00	.00	0.
1	0610	75	.00	.00	.00	28.	*	1	1840	225	.00	.00	.00	0.
1	0615	76	.00	.00	.00	26.	*	1	1845	226	.00	.00	.00	0.
1	0620	77	.00	.00	.00	24.	*	1	1850	227	.00	.00	.00	0.
1	0625	78	.00	.00	.00	22.	*	1	1855	228	.00	.00	.00	0.
1	0630	79	.00	.00	.00	20.	*	1	1900	229	.00	.00	.00	0.
1	0635	80	.00	.00	.00	19.	*	1	1905	230	.00	.00	.00	0.
1	0640	81	.00	.00	.00	17.	*	1	1910	231	.00	.00	.00	0.
1	0645	82	.00	.00	.00	16.	*	1	1915	232	.00	.00	.00	0.
1	0650	83	.00	.00	.00	15.	*	1	1920	233	.00	.00	.00	0.
1	0655	84	.00	.00	.00	14.	*	1	1925	234	.00	.00	.00	0.
1	0700	85	.00	.00	.00	13.	*	1	1930	235	.00	.00	.00	0.
1	0705	86	.00	.00	.00	12.	*	1	1935	236	.00	.00	.00	0.
1	0710	87	.00	.00	.00	11.	*	1	1940	237	.00	.00	.00	0.
1	0715	88	.00	.00	.00	10.	*	1	1945	238	.00	.00	.00	0.
1	0720	89	.00	.00	.00	9.	*	1	1950	239	.00	.00	.00	0.
1	0725	90	.00	.00	.00	8.	*	1	1955	240	.00	.00	.00	0.
1	0730	91	.00	.00	.00	8.	*	1	2000	241	.00	.00	.00	0.
1	0735	92	.00	.00	.00	7.	*	1	2005	242	.00	.00	.00	0.
1	0740	93	.00	.00	.00	7.	*	1	2010	243	.00	.00	.00	0.
1	0745	94	.00	.00	.00	6.	*	1	2015	244	.00	.00	.00	0.
1	0750	95	.00	.00	.00	6.	*	1	2020	245	.00	.00	.00	0.
1	0755	96	.00	.00	.00	5.	*	1	2025	246	.00	.00	.00	0.
1	0800	97	.00	.00	.00	5.	*	1	2030	247	.00	.00	.00	0.
1	0805	98	.00	.00	.00	4.	*	1	2035	248	.00	.00	.00	0.
1	0810	99	.00	.00	.00	4.	*	1	2040	249	.00	.00	.00	0.
1	0815	100	.00	.00	.00	4.	*	1	2045	250	.00	.00	.00	0.
1	0820	101	.00	.00	.00	3.	*	1	2050	251	.00	.00	.00	0.
1	0825	102	.00	.00	.00	3.	*	1	2055	252	.00	.00	.00	0.
1	0830	103	.00	.00	.00	3.	*	1	2100	253	.00	.00	.00	0.
1	0835	104	.00	.00	.00	3.	*	1	2105	254	.00	.00	.00	0.
1	0840	105	.00	.00	.00	3.	*	1	2110	255	.00	.00	.00	0.

1	0845	106	.00	.00	.00	2.	*	1	2115	256	.00	.00	.00	0.
1	0850	107	.00	.00	.00	2.	*	1	2120	257	.00	.00	.00	0.
1	0855	108	.00	.00	.00	2.	*	1	2125	258	.00	.00	.00	0.
1	0900	109	.00	.00	.00	2.	*	1	2130	259	.00	.00	.00	0.
1	0905	110	.00	.00	.00	2.	*	1	2135	260	.00	.00	.00	0.
1	0910	111	.00	.00	.00	2.	*	1	2140	261	.00	.00	.00	0.
1	0915	112	.00	.00	.00	1.	*	1	2145	262	.00	.00	.00	0.
1	0920	113	.00	.00	.00	1.	*	1	2150	263	.00	.00	.00	0.
1	0925	114	.00	.00	.00	1.	*	1	2155	264	.00	.00	.00	0.
1	0930	115	.00	.00	.00	1.	*	1	2200	265	.00	.00	.00	0.
1	0935	116	.00	.00	.00	1.	*	1	2205	266	.00	.00	.00	0.
1	0940	117	.00	.00	.00	1.	*	1	2210	267	.00	.00	.00	0.
1	0945	118	.00	.00	.00	1.	*	1	2215	268	.00	.00	.00	0.
1	0950	119	.00	.00	.00	1.	*	1	2220	269	.00	.00	.00	0.
1	0955	120	.00	.00	.00	1.	*	1	2225	270	.00	.00	.00	0.
1	1000	121	.00	.00	.00	1.	*	1	2230	271	.00	.00	.00	0.
1	1005	122	.00	.00	.00	1.	*	1	2235	272	.00	.00	.00	0.
1	1010	123	.00	.00	.00	1.	*	1	2240	273	.00	.00	.00	0.
1	1015	124	.00	.00	.00	0.	*	1	2245	274	.00	.00	.00	0.
1	1020	125	.00	.00	.00	0.	*	1	2250	275	.00	.00	.00	0.
1	1025	126	.00	.00	.00	0.	*	1	2255	276	.00	.00	.00	0.
1	1030	127	.00	.00	.00	0.	*	1	2300	277	.00	.00	.00	0.
1	1035	128	.00	.00	.00	0.	*	1	2305	278	.00	.00	.00	0.
1	1040	129	.00	.00	.00	0.	*	1	2310	279	.00	.00	.00	0.
1	1045	130	.00	.00	.00	0.	*	1	2315	280	.00	.00	.00	0.
1	1050	131	.00	.00	.00	0.	*	1	2320	281	.00	.00	.00	0.
1	1055	132	.00	.00	.00	0.	*	1	2325	282	.00	.00	.00	0.
1	1100	133	.00	.00	.00	0.	*	1	2330	283	.00	.00	.00	0.
1	1105	134	.00	.00	.00	0.	*	1	2335	284	.00	.00	.00	0.
1	1110	135	.00	.00	.00	0.	*	1	2340	285	.00	.00	.00	0.
1	1115	136	.00	.00	.00	0.	*	1	2345	286	.00	.00	.00	0.
1	1120	137	.00	.00	.00	0.	*	1	2350	287	.00	.00	.00	0.
1	1125	138	.00	.00	.00	0.	*	1	2355	288	.00	.00	.00	0.
1	1130	139	.00	.00	.00	0.	*	2	0000	289	.00	.00	.00	0.
1	1135	140	.00	.00	.00	0.	*	2	0005	290	.00	.00	.00	0.
1	1140	141	.00	.00	.00	0.	*	2	0010	291	.00	.00	.00	0.
1	1145	142	.00	.00	.00	0.	*	2	0015	292	.00	.00	.00	0.
1	1150	143	.00	.00	.00	0.	*	2	0020	293	.00	.00	.00	0.
1	1155	144	.00	.00	.00	0.	*	2	0025	294	.00	.00	.00	0.
1	1200	145	.00	.00	.00	0.	*	2	0030	295	.00	.00	.00	0.
1	1205	146	.00	.00	.00	0.	*	2	0035	296	.00	.00	.00	0.
1	1210	147	.00	.00	.00	0.	*	2	0040	297	.00	.00	.00	0.
1	1215	148	.00	.00	.00	0.	*	2	0045	298	.00	.00	.00	0.
1	1220	149	.00	.00	.00	0.	*	2	0050	299	.00	.00	.00	0.
1	1225	150	.00	.00	.00	0.	*	2	0055	300	.00	.00	.00	0.
							*							

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TOTAL RAINFALL = 1.94, TOTAL LOSS = 1.42, TOTAL EXCESS = .52

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)					
		(CFS)				
62.	5.17		18.	4.	4.	4.
		(INCHES)	.514	.516	.516	.516
		(AC-FT)	9.	9.	9.	9.

CUMULATIVE AREA = .32 SQ MI

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          **************
          *            *
 41 KK    *     AB     *
          *            *
          **************
                    COMBINE SUB-BASIN B WITH ROUTED SUB-BASIN A

 44 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          2  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL         0.  HYDROGRAPH PLOT SCALE

 43 HC          HYDROGRAPH COMBINATION
                     ICOMP          2  NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION AB
SUM OF 2 HYDROGRAPHS

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	69.	*	1		1230	151	0.	*	1		1845	226	0.
1		0005	2	0.	*	1		0620	77	64.	*	1		1235	152	0.	*	1		1850	227	0.
1		0010	3	0.	*	1		0625	78	59.	*	1		1240	153	0.	*	1		1855	228	0.
1		0015	4	0.	*	1		0630	79	54.	*	1		1245	154	0.	*	1		1900	229	0.
1		0020	5	0.	*	1		0635	80	50.	*	1		1250	155	0.	*	1		1905	230	0.
1		0025	6	0.	*	1		0640	81	46.	*	1		1255	156	0.	*	1		1910	231	0.
1		0030	7	0.	*	1		0645	82	43.	*	1		1300	157	0.	*	1		1915	232	0.
1		0035	8	0.	*	1		0650	83	40.	*	1		1305	158	0.	*	1		1920	233	0.
1		0040	9	0.	*	1		0655	84	38.	*	1		1310	159	0.	*	1		1925	234	0.
1		0045	10	0.	*	1		0700	85	35.	*	1		1315	160	0.	*	1		1930	235	0.
1		0050	11	0.	*	1		0705	86	33.	*	1		1320	161	0.	*	1		1935	236	0.
1		0055	12	0.	*	1		0710	87	30.	*	1		1325	162	0.	*	1		1940	237	0.
1		0100	13	0.	*	1		0715	88	28.	*	1		1330	163	0.	*	1		1945	238	0.
1		0105	14	0.	*	1		0720	89	26.	*	1		1335	164	0.	*	1		1950	239	0.
1		0110	15	1.	*	1		0725	90	24.	*	1		1340	165	0.	*	1		1955	240	0.
1		0115	16	1.	*	1		0730	91	22.	*	1		1345	166	0.	*	1		2000	241	0.
1		0120	17	1.	*	1		0735	92	20.	*	1		1350	167	0.	*	1		2005	242	0.
1		0125	18	1.	*	1		0740	93	19.	*	1		1355	168	0.	*	1		2010	243	0.
1		0130	19	1.	*	1		0745	94	18.	*	1		1400	169	0.	*	1		2015	244	0.
1		0135	20	2.	*	1		0750	95	16.	*	1		1405	170	0.	*	1		2020	245	0.
1		0140	21	2.	*	1		0755	96	15.	*	1		1410	171	0.	*	1		2025	246	0.
1		0145	22	2.	*	1		0800	97	14.	*	1		1415	172	0.	*	1		2030	247	0.
1		0150	23	2.	*	1		0805	98	13.	*	1		1420	173	0.	*	1		2035	248	0.
1		0155	24	2.	*	1		0810	99	12.	*	1		1425	174	0.	*	1		2040	249	0.
1		0200	25	2.	*	1		0815	100	11.	*	1		1430	175	0.	*	1		2045	250	0.
1		0205	26	2.	*	1		0820	101	10.	*	1		1435	176	0.	*	1		2050	251	0.
1		0210	27	2.	*	1		0825	102	9.	*	1		1440	177	0.	*	1		2055	252	0.
1		0215	28	2.	*	1		0830	103	9.	*	1		1445	178	0.	*	1		2100	253	0.

1	0220	29	2.	*	1	0835	104	8.	*	1	1450	179	0.	*	1	2105	254	0.
1	0225	30	2.	*	1	0840	105	7.	*	1	1455	180	0.	*	1	2110	255	0.
1	0230	31	2.	*	1	0845	106	7.	*	1	1500	181	0.	*	1	2115	256	0.
1	0235	32	2.	*	1	0850	107	6.	*	1	1505	182	0.	*	1	2120	257	0.
1	0240	33	2.	*	1	0855	108	6.	*	1	1510	183	0.	*	1	2125	258	0.
1	0245	34	2.	*	1	0900	109	6.	*	1	1515	184	0.	*	1	2130	259	0.
1	0250	35	2.	*	1	0905	110	5.	*	1	1520	185	0.	*	1	2135	260	0.
1	0255	36	2.	*	1	0910	111	5.	*	1	1525	186	0.	*	1	2140	261	0.
1	0300	37	2.	*	1	0915	112	4.	*	1	1530	187	0.	*	1	2145	262	0.
1	0305	38	2.	*	1	0920	113	4.	*	1	1535	188	0.	*	1	2150	263	0.
1	0310	39	2.	*	1	0925	114	4.	*	1	1540	189	0.	*	1	2155	264	0.
1	0315	40	2.	*	1	0930	115	4.	*	1	1545	190	0.	*	1	2200	265	0.
1	0320	41	2.	*	1	0935	116	3.	*	1	1550	191	0.	*	1	2205	266	0.
1	0325	42	2.	*	1	0940	117	3.	*	1	1555	192	0.	*	1	2210	267	0.
1	0330	43	2.	*	1	0945	118	3.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	2.	*	1	0950	119	3.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	2.	*	1	0955	120	2.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	3.	*	1	1000	121	1.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	4.	*	1	1005	122	1.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	5.	*	1	1010	123	1.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	6.	*	1	1015	124	1.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	9.	*	1	1020	125	1.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	13.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	20.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	32.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	49.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	70.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	93.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	116.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	137.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	153.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	164.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	170.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	172.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	170.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	165.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	158.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	149.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	139.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	129.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	120.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	112.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	103.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	95.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	88.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	81.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	75.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)					
		(CFS)				
172.	5.08		51.	13.	13.	13.
		(INCHES)	.835	.851	.851	.851
		(AC-FT)	25.	26.	26.	26.

CUMULATIVE AREA = .57 SQ MI

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          **************
          *            *
 45 KK    *     RTEAB  *     2C
          *            *
          **************
                        ROUTE COMBINED HYDROGRAPH TO SUB BASIN C

 51 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

              HYDROGRAPH ROUTING DATA

 47 RS          STORAGE ROUTING
                      NSTPS          4  NUMBER OF SUBREACHES
                       ITYP       FLOW  TYPE OF INITIAL CONDITION
                     RSVRIC        .00  INITIAL CONDITION
                          X        .00 WORKING R AND D COEFFICIENT

 48 RC          NORMAL DEPTH CHANNEL
                        ANL       .025  LEFT OVERBANK N-VALUE
                       ANCH       .015  MAIN CHANNEL N-VALUE
                        ANR       .025  RIGHT OVERBANK N-VALUE
                      RLNTH      2650.  REACH LENGTH
                        SEL      .0006  ENERGY SLOPE
                      ELMAX      103.0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                   CROSS-SECTION DATA
                        --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
 50 RY        ELEVATION   102.00    101.00    100.00    102.00    101.00    101.54    101.00    103.00
 49 RX        DISTANCE    100.00    150.00    152.00    156.00    158.00    185.00    212.00    216.00

                                                  ***

                                   COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

          STORAGE       .00       .00       .01       .03       .05       .08       .11       .20       .51      1.07
          OUTFLOW       .00       .02       .11       .31       .67      1.21      1.97      2.01      5.24     12.82
        ELEVATION    100.00    100.16    100.32    100.47    100.63    100.79    100.95    101.11    101.26    101.42

          STORAGE      1.85      2.76      3.76      4.83      5.93      7.03      8.13      9.24     10.35     11.46
          OUTFLOW     26.75     49.04     77.50    113.23    157.28    207.05    262.21    322.53    387.81    457.85
        ELEVATION    101.58    101.74    101.89    102.05    102.21    102.37    102.53    102.68    102.84    103.00
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HYDROGRAPH AT STATION RTEAB

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                                        *                                        *
 DA MON HRMN ORD  OUTFLOW  STORAGE   STAGE * DA MON HRMN ORD  OUTFLOW  STORAGE   STAGE * DA MON HRMN ORD  OUTFLOW  STORAGE   STAGE
                                        *                                        *
```

1	0000	1	0.	.0	100.0	*	1	0820	101	19.	.4	101.5	*	1	1640	201	0.	.0	100.0
1	0005	2	0.	.0	100.0	*	1	0825	102	18.	.3	101.5	*	1	1645	202	0.	.0	100.0
1	0010	3	0.	.0	100.0	*	1	0830	103	17.	.3	101.5	*	1	1650	203	0.	.0	100.0
1	0015	4	0.	.0	100.0	*	1	0835	104	16.	.3	101.5	*	1	1655	204	0.	.0	100.0
1	0020	5	0.	.0	100.0	*	1	0840	105	15.	.3	101.4	*	1	1700	205	0.	.0	100.0
1	0025	6	0.	.0	100.0	*	1	0845	106	14.	.3	101.4	*	1	1705	206	0.	.0	100.0
1	0030	7	0.	.0	100.0	*	1	0850	107	13.	.3	101.4	*	1	1710	207	0.	.0	100.0
1	0035	8	0.	.0	100.0	*	1	0855	108	12.	.3	101.4	*	1	1715	208	0.	.0	100.0
1	0040	9	0.	.0	100.0	*	1	0900	109	12.	.2	101.4	*	1	1720	209	0.	.0	100.0
1	0045	10	0.	.0	100.0	*	1	0905	110	11.	.2	101.4	*	1	1725	210	0.	.0	100.0
1	0050	11	0.	.0	100.0	*	1	0910	111	11.	.2	101.4	*	1	1730	211	0.	.0	100.0
1	0055	12	0.	.0	100.0	*	1	0915	112	10.	.2	101.4	*	1	1735	212	0.	.0	100.0
1	0100	13	0.	.0	100.0	*	1	0920	113	9.	.2	101.3	*	1	1740	213	0.	.0	100.0
1	0105	14	0.	.0	100.0	*	1	0925	114	9.	.2	101.3	*	1	1745	214	0.	.0	100.0
1	0110.	15	0.	.0	100.0	*	1	0930	115	8.	.2	101.3	*	1	1750	215	0.	.0	100.0
1	0115	16	0.	.0	100.0	*	1	0935	116	8.	.2	101.3	*	1	1755	216	0.	.0	100.0
1	0120	17	0.	.0	100.1	*	1	0940	117	7.	.2	101.3	*	1	1800	217	0.	.0	100.0
1	0125	18	0.	.0	100.1	*	1	0945	118	7.	.2	101.3	*	1	1805	218	0.	.0	100.0
1	0130	19	0.	.0	100.2	*	1	0950	119	6.	.1	101.3	*	1	1810	219	0.	.0	100.0
1	0135	20	0.	.0	100.3	*	1	0955	120	6.	.1	101.3	*	1	1815	220	0.	.0	100.0
1	0140	21	0.	.0	100.4	*	1	1000	121	6.	.1	101.3	*	1	1820	221	0.	.0	100.0
1	0145	22	0.	.0	100.5	*	1	1005	122	5.	.1	101.3	*	1	1825	222	0.	.0	100.0
1	0150	23	1.	.0	100.6	*	1	1010	123	5.	.1	101.3	*	1	1830	223	0.	.0	100.0
1	0155	24	1.	.0	100.7	*	1	1015	124	5.	.1	101.2	*	1	1835	224	0.	.0	100.0
1	0200	25	1.	.0	100.7	*	1	1020	125	5.	.1	101.2	*	1	1840	225	0.	.0	100.0
1	0205	26	1.	.0	100.8	*	1	1025	126	4.	.1	101.2	*	1	1845	226	0.	.0	100.0
1	0210	27	1.	.0	100.8	*	1	1030	127	4.	.1	101.2	*	1	1850	227	0.	.0	100.0
1	0215	28	2.	.0	100.9	*	1	1035	128	4.	.1	101.2	*	1	1855	228	0.	.0	100.0
1	0220	29	2.	.0	100.9	*	1	1040	129	4.	.1	101.2	*	1	1900	229	0.	.0	100.0
1	0225	30	2.	.0	100.9	*	1	1045	130	3.	.1	101.2	*	1	1905	230	0.	.0	100.0
1	0230	31	2.	.0	100.9	*	1	1050	131	3.	.1	101.2	*	1	1910	231	0.	.0	100.0
1	0235	32	2.	.0	100.9	*	1	1055	132	3.	.1	101.1	*	1	1915	232	0.	.0	100.0
1	0240	33	2.	.0	100.9	*	1	1100	133	3.	.1	101.1	*	1	1920	233	0.	.0	100.0
1	0245	34	2.	.0	100.9	*	1	1105	134	2.	.1	101.1	*	1	1925	234	0.	.0	100.0
1	0250	35	2.	.0	100.9	*	1	1110	135	2.	.1	101.1	*	1	1930	235	0.	.0	100.0
1	0255	36	2.	.0	100.9	*	1	1115	136	2.	.0	101.1	*	1	1935	236	0.	.0	100.0
1	0300	37	2.	.0	100.9	*	1	1120	137	2.	.0	101.0	*	1	1940	237	0.	.0	100.0
1	0305	38	2.	.0	100.9	*	1	1125	138	2.	.0	101.0	*	1	1945	238	0.	.0	100.0
	0310	39	2.	.0	100.9	*	1	1130	139	1.	.0	100.8	*	1	1950	239	0.	.0	100.0
	0315	40	2.	.0	100.9	*	1	1135	140	1.	.0	100.7	*	1	1955	240	0.	.0	100.0
	0320	41	2.	.0	100.9	*	1	1140	141	1.	.0	100.6	*	1	2000	241	0.	.0	100.0
	0325	42	2.	.0	100.9	*	1	1145	142	0.	.0	100.5	*	1	2005	242	0.	.0	100.0
	0330	43	2.	.0	100.9	*	1	1150	143	0.	.0	100.5	*	1	2010	243	0.	.0	100.0
	0335	44	2.	.0	100.9	*	1	1155	144	0.	.0	100.4	*	1	2015	244	0.	.0	100.0
	0340	45	2.	.0	100.9	*	1	1200	145	0.	.0	100.4	*	1	2020	245	0.	.0	100.0
	0345	46	2.	.0	100.9	*	1	1205	146	0.	.0	100.4	*	1	2025	246	0.	.0	100.0
1	0350	47	2.	.0	100.9	*	1	1210	147	0.	.0	100.4	*	1	2030	247	0.	.0	100.0
1	0355	48	2.	.0	100.9	*	1	1215	148	0.	.0	100.3	*	1	2035	248	0.	.0	100.0
1	0400	49	2.	.0	100.9	*	1	1220	149	0.	.0	100.3	*	1	2040	249	0.	.0	100.0
1	0405	50	2.	.0	100.9	*	1	1225	150	0.	.0	100.3	*	1	2045	250	0.	.0	100.0
1	0410	51	2.	.0	100.9	*	1	1230	151	0.	.0	100.3	*	1	2050	251	0.	.0	100.0
1	0415	52	2.	.0	100.9	*	1	1235	152	0.	.0	100.3	*	1	2055	252	0.	.0	100.0
1	0420	53	2.	.0	101.0	*	1	1240	153	0.	.0	100.3	*	1	2100	253	0.	.0	100.0
1	0425	54	2.	.0	101.0	*	1	1245	154	0.	.0	100.2	*	1	2105	254	0.	.0	100.0
1	0430	55	2.	.1	101.1	*	1	1250	155	0.	.0	100.2	*	1	2110	255	0.	.0	100.0
1	0435	56	4.	.1	101.2	*	1	1255	156	0.	.0	100.2	*	1	2115	256	0.	.0	100.0
1	0440	57	9.	.2	101.3	*	1	1300	157	0.	.0	100.2	*	1	2120	257	0.	.0	100.0
1	0445	58	19.	.4	101.5	*	1	1305	158	0.	.0	100.2	*	1	2125	258	0.	.0	100.0
1	0450	59	38.	.6	101.7	*	1	1310	159	0.	.0	100.2	*	1	2130	259	0.	.0	100.0
1	0455	60	65.	.8	101.8	*	1	1315	160	0.	.0	100.2	*	1	2135	260	0.	.0	100.0

1	0500	61	95.	1.1	102.0	*	1	1320	161	0.	.0	100.2	*	1	2140	261	0.	.0	100.0
1	0505	62	124.	1.3	102.1	*	1	1325	162	0.	.0	100.2	*	1	2145	262	0.	.0	100.0
1	0510	63	146.	1.4	102.2	*	1	1330	163	0.	.0	100.2	*	1	2150	263	0.	.0	100.0
1	0515	64	159.	1.5	102.2	*	1	1335	164	0.	.0	100.2	*	1	2155	264	0.	.0	100.0
1	0520	65	165.	1.5	102.2	*	1	1340	165	0.	.0	100.2	*	1	2200	265	0.	.0	100.0
1	0525	66	166.	1.5	102.2	*	1	1345	166	0.	.0	100.2	*	1	2205	266	0.	.0	100.0
1	0530	67	163.	1.5	102.2	*	1	1350	167	0.	.0	100.2	*	1	2210	267	0.	.0	100.0
1	0535	68	157.	1.5	102.2	*	1	1355	168	0.	.0	100.2	*	1	2215	268	0.	.0	100.0
1	0540	69	151.	1.4	102.2	*	1	1400	169	0.	.0	100.2	*	1	2220	269	0.	.0	100.0
1	0545	70	143.	1.4	102.2	*	1	1405	170	0.	.0	100.2	*	1	2225	270	0.	.0	100.0
1	0550	71	135.	1.3	102.1	*	1	1410	171	0.	.0	100.1	*	1	2230	271	0.	.0	100.0
1	0555	72	126.	1.3	102.1	*	1	1415	172	0.	.0	100.1	*	1	2235	272	0.	.0	100.0
1	0600	73	118.	1.2	102.1	*	1	1420	173	0.	.0	100.1	*	1	2240	273	0.	.0	100.0
1	0605	74	111.	1.2	102.0	*	1	1425	174	0.	.0	100.1	*	1	2245	274	0.	.0	100.0
1	0610	75	105.	1.1	102.0	*	1	1430	175	0.	.0	100.1	*	1	2250	275	0.	.0	100.0
1	0615	76	98.	1.1	102.0	*	1	1435	176	0.	.0	100.1	*	1	2255	276	0.	.0	100.0
1	0620	77	91.	1.0	102.0	*	1	1440	177	0.	.0	100.1	*	1	2300	277	0.	.0	100.0
1	0625	78	85.	1.0	101.9	*	1	1445	178	0.	.0	100.1	*	1	2305	278	0.	.0	100.0
1	0630	79	79.	1.0	101.9	*	1	1450	179	0.	.0	100.1	*	1	2310	279	0.	.0	100.0
1	0635	80	74.	.9	101.9	*	1	1455	180	0.	.0	100.1	*	1	2315	280	0.	.0	100.0
1	0640	81	69.	.9	101.9	*	1	1500	181	0.	.0	100.1	*	1	2320	281	0.	.0	100.0
1	0645	82	65.	.8	101.8	*	1	1505	182	0.	.0	100.1	*	1	2325	282	0.	.0	100.0
1	0650	83	60.	.8	101.8	*	1	1510	183	0.	.0	100.1	*	1	2330	283	0.	.0	100.0
1	0655	84	56.	.7	101.8	*	1	1515	184	0.	.0	100.1	*	1	2335	284	0.	.0	100.0
1	0700	85	52.	.7	101.8	*	1	1520	185	0.	.0	100.1	*	1	2340	285	0.	.0	100.0
1	0705	86	49.	.7	101.7	*	1	1525	186	0.	.0	100.1	*	1	2345	286	0.	.0	100.0
1	0710	87	46.	.7	101.7	*	1	1530	187	0.	.0	100.1	*	1	2350	287	0.	.0	100.0
1	0715	88	43.	.6	101.7	*	1	1535	188	0.	.0	100.1	*	1	2355	288	0.	.0	100.0
1	0720	89	41.	.6	101.7	*	1	1540	189	0.	.0	100.1	*	2	0000	289	0.	.0	100.0
1	0725	90	38.	.6	101.7	*	1	1545	190	0.	.0	100.1	*	2	0005	290	0.	.0	100.0
1	0730	91	35.	.5	101.6	*	1	1550	191	0.	.0	100.1	*	2	0010	291	0.	.0	100.0
1	0735	92	33.	.5	101.6	*	1	1555	192	0.	.0	100.1	*	2	0015	292	0.	.0	100.0
1	0740	93	31.	.5	101.6	*	1	1600	193	0.	.0	100.0	*	2	0020	293	0.	.0	100.0
1	0745	94	29.	.5	101.6	*	1	1605	194	0.	.0	100.0	*	2	0025	294	0.	.0	100.0
1	0750	95	27.	.5	101.6	*	1	1610	195	0.	.0	100.0	*	2	0030	295	0.	.0	100.0
1	0755	96	26.	.4	101.6	*	1	1615	196	0.	.0	100.0	*	2	0035	296	0.	.0	100.0
1	0800	97	25.	.4	101.6	*	1	1620	197	0.	.0	100.0	*	2	0040	297	0.	.0	100.0
1	0805	98	23.	.4	101.5	*	1	1625	198	0.	.0	100.0	*	2	0045	298	0.	.0	100.0
1	0810	99	22.	.4	101.5	*	1	1630	199	0.	.0	100.0	*	2	0050	299	0.	.0	100.0
1	0815	100	21.	.4	101.5	*	1	1635	200	0.	.0	100.0	*	2	0055	300	0.	.0	100.0
						*							*						

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)					
		(CFS)				
166.	5.42		51.	13.	13.	13.
		(INCHES)	.830	.851	.851	.851
		(AC-FT)	25.	26.	26.	26.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
(AC-FT)	(HR)				
2.	5.42	1.	0.	0.	0.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
(FEET)	(HR)				
102.24	5.42	101.65	100.61	100.59	100.59

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                    CUMULATIVE AREA =     .57 SQ MI


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          **************
          *            *
 52 KK    *     C      *
          *            *
          **************
                    SUB-BASIN C
                    6-HOUR RAINFALL, PATTERN NO. 2.00 WAS USED TO FIND TC & R FOR THIS BASIN
                    THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .975
                      L = 1.00  Kb = .049  Adj. Slope =   10.0

 62 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

             SUBBASIN RUNOFF DATA

 57 BA          SUBBASIN CHARACTERISTICS
                      TAREA        .45  SUBBASIN AREA

                PRECIPITATION DATA

 14 PB                STORM       1.94  BASIN TOTAL PRECIPITATION

 14 PI            INCREMENTAL PRECIPITATION PATTERN
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00       .00       .01       .01       .01       .01       .01       .01       .03
                      .03       .03       .06       .06       .06       .08       .08       .08       .05       .05
                      .05       .02       .02       .02       .01       .01       .01       .00       .00       .00
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00

  3 LG          GREEN AND AMPT LOSS RATE
                      STRTL        .50  STARTING LOSS
                        DTH        .15  MOISTURE DEFICIT
                       PSIF       7.60  WETTING FRONT SUCTION
                      XKSAT        .08  HYDRAULIC CONDUCTIVITY
                      RTIMP        .00  PERCENT IMPERVIOUS AREA

 59 UC          CLARK UNITGRAPH
                         TC        .98  TIME OF CONCENTRATION
                          R        .57  STORAGE COEFFICIENT

 60 UA          ACCUMULATED-AREA VS. TIME,  11 ORDINATES
                        .0       3.0       5.0       8.0      12.0      20.0      43.0      75.0      90.0      96.0
                     100.0

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UNIT HYDROGRAPH PARAMETERS

CLARK TC= .98 HR, R= .57 HR

SNYDER TP= .82 HR, CP= .86

UNIT HYDROGRAPH

44 END-OF-PERIOD ORDINATES

6.	16.	23.	33.	46.	70.	127.	220.	292.	309.
297.	273.	242.	209.	180.	156.	135.	116.	100.	87.
75.	65.	56.	48.	42.	36.	31.	27.	23.	20.
17.	15.	13.	11.	10.	8.	7.	6.	5.	5.
4.	3.	3.	3.						

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HYDROGRAPH AT STATION C

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1		0000	1	.00	.00	.00	0.	*	1		1230	151	.00	.00	.00	0.
1		0005	2	.01	.01	.00	0.	*	1		1235	152	.00	.00	.00	0.
1		0010	3	.01	.01	.00	0.	*	1		1240	153	.00	.00	.00	0.
1		0015	4	.01	.01	.00	0.	*	1		1245	154	.00	.00	.00	0.
1		0020	5	.00	.00	.00	0.	*	1		1250	155	.00	.00	.00	0.
1		0025	6	.00	.00	.00	0.	*	1		1255	156	.00	.00	.00	0.
1		0030	7	.00	.00	.00	0.	*	1		1300	157	.00	.00	.00	0.
1		0035	8	.01	.01	.00	0.	*	1		1305	158	.00	.00	.00	0.
1		0040	9	.01	.01	.00	0.	*	1		1310	159	.00	.00	.00	0.
1		0045	10	.01	.01	.00	0.	*	1		1315	160	.00	.00	.00	0.
1		0050	11	.01	.01	.00	0.	*	1		1320	161	.00	.00	.00	0.
1		0055	12	.01	.01	.00	0.	*	1		1325	162	.00	.00	.00	0.
1		0100	13	.01	.01	.00	0.	*	1		1330	163	.00	.00	.00	0.
1		0105	14	.01	.01	.00	0.	*	1		1335	164	.00	.00	.00	0.
1		0110	15	.01	.01	.00	0.	*	1		1340	165	.00	.00	.00	0.
1		0115	16	.01	.01	.00	0.	*	1		1345	166	.00	.00	.00	0.
1		0120	17	.01	.01	.00	0.	*	1		1350	167	.00	.00	.00	0.
1		0125	18	.01	.01	.00	0.	*	1		1355	168	.00	.00	.00	0.
1		0130	19	.01	.01	.00	0.	*	1		1400	169	.00	.00	.00	0.
1		0135	20	.01	.01	.00	0.	*	1		1405	170	.00	.00	.00	0.
1		0140	21	.01	.01	.00	0.	*	1		1410	171	.00	.00	.00	0.
1		0145	22	.01	.01	.00	0.	*	1		1415	172	.00	.00	.00	0.
1		0150	23	.01	.01	.00	0.	*	1		1420	173	.00	.00	.00	0.
1		0155	24	.01	.01	.00	0.	*	1		1425	174	.00	.00	.00	0.
1		0200	25	.01	.01	.00	0.	*	1		1430	175	.00	.00	.00	0.
1		0205	26	.01	.01	.00	0.	*	1		1435	176	.00	.00	.00	0.
1		0210	27	.01	.01	.00	0.	*	1		1440	177	.00	.00	.00	0.
1		0215	28	.01	.01	.00	0.	*	1		1445	178	.00	.00	.00	0.
1		0220	29	.01	.01	.00	0.	*	1		1450	179	.00	.00	.00	0.
1		0225	30	.01	.01	.00	0.	*	1		1455	180	.00	.00	.00	0.
1		0230	31	.01	.01	.00	0.	*	1		1500	181	.00	.00	.00	0.
1		0235	32	.01	.01	.00	0.	*	1		1505	182	.00	.00	.00	0.
1		0240	33	.01	.01	.00	0.	*	1		1510	183	.00	.00	.00	0.
1		0245	34	.01	.01	.00	0.	*	1		1515	184	.00	.00	.00	0.
1		0250	35	.01	.01	.00	0.	*	1		1520	185	.00	.00	.00	0.
1		0255	36	.01	.01	.00	0.	*	1		1525	186	.00	.00	.00	0.
1		0300	37	.01	.01	.00	0.	*	1		1530	187	.00	.00	.00	0.
1		0305	38	.03	.03	.00	0.	*	1		1535	188	.00	.00	.00	0.
1		0310	39	.03	.03	.00	0.	*	1		1540	189	.00	.00	.00	0.
1		0315	40	.03	.03	.00	0.	*	1		1545	190	.00	.00	.00	0.

1	0320	41	.06	.06	.00	0.	*	1	1550	191	.00	.00	.00	0.
1	0325	42	.06	.06	.00	0.	*	1	1555	192	.00	.00	.00	0.
1	0330	43	.06	.06	.00	0.	*	1	1600	193	.00	.00	.00	0.
1	0335	44	.13	.11	.02	0.	*	1	1605	194	.00	.00	.00	0.
1	0340	45	.13	.06	.07	1.	*	1	1610	195	.00	.00	.00	0.
1	0345	46	.13	.05	.08	2.	*	1	1615	196	.00	.00	.00	0.
1	0350	47	.15	.04	.11	4.	*	1	1620	197	.00	.00	.00	0.
1	0355	48	.15	.03	.12	7.	*	1	1625	198	.00	.00	.00	0.
1	0400	49	.15	.03	.12	12.	*	1	1630	199	.00	.00	.00	0.
1	0405	50	.09	.03	.06	19.	*	1	1635	200	.00	.00	.00	0.
1	0410	51	.09	.03	.06	31.	*	1	1640	201	.00	.00	.00	0.
1	0415	52	.09	.03	.07	50.	*	1	1645	202	.00	.00	.00	0.
1	0420	53	.04	.02	.02	75.	*	1	1650	203	.00	.00	.00	0.
1	0425	54	.04	.02	.02	104.	*	1	1655	204	.00	.00	.00	0.
1	0430	55	.04	.02	.02	134.	*	1	1700	205	.00	.00	.00	0.
1	0435	56	.03	.02	.00	159.	*	1	1705	206	.00	.00	.00	0.
1	0440	57	.03	.02	.00	176.	*	1	1710	207	.00	.00	.00	0.
1	0445	58	.03	.02	.00	183.	*	1	1715	208	.00	.00	.00	0.
1	0450	59	.01	.01	.00	184.	*	1	1720	209	.00	.00	.00	0.
1	0455	60	.01	.01	.00	177.	*	1	1725	210	.00	.00	.00	0.
1	0500	61	.01	.01	.00	166.	*	1	1730	211	.00	.00	.00	0.
1	0505	62	.01	.01	.00	152.	*	1	1735	212	.00	.00	.00	0.
1	0510	63	.01	.01	.00	137.	*	1	1740	213	.00	.00	.00	0.
1	0515	64	.01	.01	.00	121.	*	1	1745	214	.00	.00	.00	0.
1	0520	65	.01	.01	.00	107.	*	1	1750	215	.00	.00	.00	0.
1	0525	66	.01	.01	.00	93.	*	1	1755	216	.00	.00	.00	0.
1	0530	67	.01	.01	.00	81.	*	1	1800	217	.00	.00	.00	0.
1	0535	68	.01	.01	.00	70.	*	1	1805	218	.00	.00	.00	0.
1	0540	69	.01	.01	.00	61.	*	1	1810	219	.00	.00	.00	0.
1	0545	70	.01	.01	.00	52.	*	1	1815	220	.00	.00	.00	0.
1	0550	71	.01	.01	.00	45.	*	1	1820	221	.00	.00	.00	0.
1	0555	72	.01	.01	.00	39.	*	1	1825	222	.00	.00	.00	0.
1	0600	73	.01	.01	.00	34.	*	1	1830	223	.00	.00	.00	0.
1	0605	74	.00	.00	.00	29.	*	1	1835	224	.00	.00	.00	0.
1	0610	75	.00	.00	.00	25.	*	1	1840	225	.00	.00	.00	0.
1	0615	76	.00	.00	.00	22.	*	1	1845	226	.00	.00	.00	0.
1	0620	77	.00	.00	.00	19.	*	1	1850	227	.00	.00	.00	0.
1	0625	78	.00	.00	.00	16.	*	1	1855	228	.00	.00	.00	0.
1	0630	79	.00	.00	.00	14.	*	1	1900	229	.00	.00	.00	0.
1	0635	80	.00	.00	.00	12.	*	1	1905	230	.00	.00	.00	0.
1	0640	81	.00	.00	.00	10.	*	1	1910	231	.00	.00	.00	0.
1	0645	82	.00	.00	.00	9.	*	1	1915	232	.00	.00	.00	0.
1	0650	83	.00	.00	.00	8.	*	1	1920	233	.00	.00	.00	0.
1	0655	84	.00	.00	.00	7.	*	1	1925	234	.00	.00	.00	0.
1	0700	85	.00	.00	.00	6.	*	1	1930	235	.00	.00	.00	0.
1	0705	86	.00	.00	.00	5.	*	1	1935	236	.00	.00	.00	0.
1	0710	87	.00	.00	.00	4.	*	1	1940	237	.00	.00	.00	0.
1	0715	88	.00	.00	.00	4.	*	1	1945	238	.00	.00	.00	0.
1	0720	89	.00	.00	.00	3.	*	1	1950	239	.00	.00	.00	0.
1	0725	90	.00	.00	.00	2.	*	1	1955	240	.00	.00	.00	0.
1	0730	91	.00	.00	.00	2.	*	1	2000	241	.00	.00	.00	0.
1	0735	92	.00	.00	.00	1.	*	1	2005	242	.00	.00	.00	0.
1	0740	93	.00	.00	.00	1.	*	1	2010	243	.00	.00	.00	0.
1	0745	94	.00	.00	.00	1.	*	1	2015	244	.00	.00	.00	0.
1	0750	95	.00	.00	.00	0.	*	1	2020	245	.00	.00	.00	0.
1	0755	96	.00	.00	.00	0.	*	1	2025	246	.00	.00	.00	0.
1	0800	97	.00	.00	.00	0.	*	1	2030	247	.00	.00	.00	0.
1	0805	98	.00	.00	.00	0.	*	1	2035	248	.00	.00	.00	0.
1	0810	99	.00	.00	.00	0.	*	1	2040	249	.00	.00	.00	0.
1	0815	100	.00	.00	.00	0.	*	1	2045	250	.00	.00	.00	0.

1	0820	101	.00	.00	.00	0.	*	1	2050	251	.00	.00	.00	0.
1	0825	102	.00	.00	.00	0.	*	1	2055	252	.00	.00	.00	0.
1	0830	103	.00	.00	.00	0.	*	1	2100	253	.00	.00	.00	0.
1	0835	104	.00	.00	.00	0.	*	1	2105	254	.00	.00	.00	0.
1	0840	105	.00	.00	.00	0.	*	1	2110	255	.00	.00	.00	0.
1	0845	106	.00	.00	.00	0.	*	1	2115	256	.00	.00	.00	0.
1	0850	107	.00	.00	.00	0.	*	1	2120	257	.00	.00	.00	0.
1	0855	108	.00	.00	.00	0.	*	1	2125	258	.00	.00	.00	0.
1	0900	109	.00	.00	.00	0.	*	1	2130	259	.00	.00	.00	0.
1	0905	110	.00	.00	.00	0.	*	1	2135	260	.00	.00	.00	0.
1	0910	111	.00	.00	.00	0.	*	1	2140	261	.00	.00	.00	0.
1	0915	112	.00	.00	.00	0.	*	1	2145	262	.00	.00	.00	0.
1	0920	113	.00	.00	.00	0.	*	1	2150	263	.00	.00	.00	0.
1	0925	114	.00	.00	.00	0.	*	1	2155	264	.00	.00	.00	0.
1	0930	115	.00	.00	.00	0.	*	1	2200	265	.00	.00	.00	0.
1	0935	116	.00	.00	.00	0.	*	1	2205	266	.00	.00	.00	0.
1	0940	117	.00	.00	.00	0.	*	1	2210	267	.00	.00	.00	0.
1	0945	118	.00	.00	.00	0.	*	1	2215	268	.00	.00	.00	0.
1	0950	119	.00	.00	.00	0.	*	1	2220	269	.00	.00	.00	0.
1	0955	120	.00	.00	.00	0.	*	1	2225	270	.00	.00	.00	0.
1	1000	121	.00	.00	.00	0.	*	1	2230	271	.00	.00	.00	0.
1	1005	122	.00	.00	.00	0.	*	1	2235	272	.00	.00	.00	0.
1	1010	123	.00	.00	.00	0.	*	1	2240	273	.00	.00	.00	0.
1	1015	124	.00	.00	.00	0.	*	1	2245	274	.00	.00	.00	0.
1	1020	125	.00	.00	.00	0.	*	1	2250	275	.00	.00	.00	0.
1	1025	126	.00	.00	.00	0.	*	1	2255	276	.00	.00	.00	0.
1	1030	127	.00	.00	.00	0.	*	1	2300	277	.00	.00	.00	0.
1	1035	128	.00	.00	.00	0.	*	1	2305	278	.00	.00	.00	0.
1	1040	129	.00	.00	.00	0.	*	1	2310	279	.00	.00	.00	0.
1	1045	130	.00	.00	.00	0.	*	1	2315	280	.00	.00	.00	0.
1	1050	131	.00	.00	.00	0.	*	1	2320	281	.00	.00	.00	0.
1	1055	132	.00	.00	.00	0.	*	1	2325	282	.00	.00	.00	0.
1	1100	133	.00	.00	.00	0.	*	1	2330	283	.00	.00	.00	0.
1	1105	134	.00	.00	.00	0.	*	1	2335	284	.00	.00	.00	0.
1	1110	135	.00	.00	.00	0.	*	1	2340	285	.00	.00	.00	0.
1	1115	136	.00	.00	.00	0.	*	1	2345	286	.00	.00	.00	0.
1	1120	137	.00	.00	.00	0.	*	1	2350	287	.00	.00	.00	0.
1	1125	138	.00	.00	.00	0.	*	1	2355	288	.00	.00	.00	0.
1	1130	139	.00	.00	.00	0.	*	2	0000	289	.00	.00	.00	0.
1	1135	140	.00	.00	.00	0.	*	2	0005	290	.00	.00	.00	0.
1	1140	141	.00	.00	.00	0.	*	2	0010	291	.00	.00	.00	0.
1	1145	142	.00	.00	.00	0.	*	2	0015	292	.00	.00	.00	0.
1	1150	143	.00	.00	.00	0.	*	2	0020	293	.00	.00	.00	0.
1	1155	144	.00	.00	.00	0.	*	2	0025	294	.00	.00	.00	0.
1	1200	145	.00	.00	.00	0.	*	2	0030	295	.00	.00	.00	0.
1	1205	146	.00	.00	.00	0.	*	2	0035	296	.00	.00	.00	0.
1	1210	147	.00	.00	.00	0.	*	2	0040	297	.00	.00	.00	0.
1	1215	148	.00	.00	.00	0.	*	2	0045	298	.00	.00	.00	0.
1	1220	149	.00	.00	.00	0.	*	2	0050	299	.00	.00	.00	0.
1	1225	150	.00	.00	.00	0.	*	2	0055	300	.00	.00	.00	0.
							*							

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TOTAL RAINFALL = 1.94, TOTAL LOSS = 1.17, TOTAL EXCESS = .77

PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW (CFS) 6-HR	24-HR	72-HR	24.92-HR
184.	4.83	37.	9.	9.	9.

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                    (INCHES)      .769        .769        .769        .769
                     (AC-FT)       18.         18.         18.         18.

                     CUMULATIVE AREA =     .45 SQ MI



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          **************
          *            *
 63 KK    *     ABC    *
          *            *
          **************
                        COMBINE SUB-BASIN C WITH MAINSTREAM HYDROGRAPH

 66 KO          OUTPUT CONTROL VARIABLES
                      IPRNT           2  PRINT CONTROL
                      IPLOT           0  PLOT CONTROL
                      QSCAL          0.  HYDROGRAPH PLOT SCALE

 65 HC          HYDROGRAPH COMBINATION
                      ICOMP           2  NUMBER OF HYDROGRAPHS TO COMBINE

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                                        HYDROGRAPH AT STATION    ABC
                                             SUM OF  2 HYDROGRAPHS

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	120.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	110.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	101.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	93.	1		1245	154	0.	1		1900	229	0.
1		0020	5	0.	1		0635	80	86.	1		1250	155	0.	1		1905	230	0.
1		0025	6	0.	1		0640	81	80.	1		1255	156	0.	1		1910	231	0.
1		0030	7	0.	1		0645	82	74.	1		1300	157	0.	1		1915	232	0.
1		0035	8	0.	1		0650	83	68.	1		1305	158	0.	1		1920	233	0.
1		0040	9	0.	1		0655	84	63.	1		1310	159	0.	1		1925	234	0.
1		0045	10	0.	1		0700	85	58.	1		1315	160	0.	1		1930	235	0.
1		0050	11	0.	1		0705	86	54.	1		1320	161	0.	1		1935	236	0.
1		0055	12	0.	1		0710	87	50.	1		1325	162	0.	1		1940	237	0.
1		0100	13	0.	1		0715	88	47.	1		1330	163	0.	1		1945	238	0.
1		0105	14	0.	1		0720	89	44.	1		1335	164	0.	1		1950	239	0.
1		0110	15	0.	1		0725	90	40.	1		1340	165	0.	1		1955	240	0.
1		0115	16	0.	1		0730	91	37.	1		1345	166	0.	1		2000	241	0.
1		0120	17	0.	1		0735	92	34.	1		1350	167	0.	1		2005	242	0.
1		0125	18	0.	1		0740	93	32.	1		1355	168	0.	1		2010	243	0.
1		0130	19	0.	1		0745	94	29.	1		1400	169	0.	1		2015	244	0.
1		0135	20	0.	1		0750	95	27.	1		1405	170	0.	1		2020	245	0.
1		0140	21	0.	1		0755	96	26.	1		1410	171	0.	1		2025	246	0.
1		0145	22	0.	1		0800	97	25.	1		1415	172	0.	1		2030	247	0.
1		0150	23	1.	1		0805	98	23.	1		1420	173	0.	1		2035	248	0.

1	0155	24	1.	*	1	0810	99	22.	*	1	1425	174	0.	*	1	2040	249	0.
1	0200	25	1.	*	1	0815	100	21.	*	1	1430	175	0.	*	1	2045	250	0.
1	0205	26	1.	*	1	0820	101	19.	*	1	1435	176	0.	*	1	2050	251	0.
1	0210	27	1.	*	1	0825	102	18.	*	1	1440	177	0.	*	1	2055	252	0.
1	0215	28	2.	*	1	0830	103	17.	*	1	1445	178	0.	*	1	2100	253	0.
1	0220	29	2.	*	1	0835	104	16.	*	1	1450	179	0.	*	1	2105	254	0.
1	0225	30	2.	*	1	0840	105	15.	*	1	1455	180	0.	*	1	2110	255	0.
1	0230	31	2.	*	1	0845	106	14.	*	1	1500	181	0.	*	1	2115	256	0.
1	0235	32	2.	*	1	0850	107	13.	*	1	1505	182	0.	*	1	2120	257	0.
1	0240	33	2.	*	1	0855	108	12.	*	1	1510	183	0.	*	1	2125	258	0.
1	0245	34	2.	*	1	0900	109	12.	*	1	1515	184	0.	*	1	2130	259	0.
1	0250	35	2.	*	1	0905	110	11.	*	1	1520	185	0.	*	1	2135	260	0.
1	0255	36	2.	*	1	0910	111	11.	*	1	1525	186	0.	*	1	2140	261	0.
1	0300	37	2.	*	1	0915	112	10.	*	1	1530	187	0.	*	1	2145	262	0.
1	0305	38	2.	*	1	0920	113	9.	*	1	1535	188	0.	*	1	2150	263	0.
1	0310	39	2.	*	1	0925	114	9.	*	1	1540	189	0.	*	1	2155	264	0.
1	0315	40	2.	*	1	0930	115	8.	*	1	1545	190	0.	*	1	2200	265	0.
1	0320	41	2.	*	1	0935	116	8.	*	1	1550	191	0.	*	1	2205	266	0.
1	0325	42	2.	*	1	0940	117	7.	*	1	1555	192	0.	*	1	2210	267	0.
1	0330	43	2.	*	1	0945	118	7.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	2.	*	1	0950	119	6.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	3.	*	1	0955	120	6.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	4.	*	1	1000	121	6.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	6.	*	1	1005	122	5.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	9.	*	1	1010	123	5.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	14.	*	1	1015	124	5.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	21.	*	1	1020	125	5.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	33.	*	1	1025	126	4.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	52.	*	1	1030	127	4.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	77.	*	1	1035	128	4.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	106.	*	1	1040	129	4.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	136.	*	1	1045	130	3.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	164.	*	1	1050	131	3.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	185.	*	1	1055	132	3.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	202.	*	1	1100	133	3.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	222.	*	1	1105	134	2.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	242.	*	1	1110	135	2.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	261.	*	1	1115	136	2.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	275.	*	1	1120	137	2.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	282.	*	1	1125	138	2.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	280.	*	1	1130	139	1.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	272.	*	1	1135	140	1.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	259.	*	1	1140	141	1.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	244.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	228.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	212.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	196.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	180.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	165.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	152.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	140.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	130.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW (CFS) 6-HR	24-HR	72-HR	24.92-HR
282.	5.17	88.	22.	22.	22.

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                (INCHES)      .799        .815        .815        .815
                 (AC-FT)       44.         44.         44.         44.

                 CUMULATIVE AREA =    1.02 SQ MI


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          *            *
 67 KK    *     RTEAB  *     C2D
          *            *
          **************
                    ROUTE COMBINED HYDROGRAPH TO SUB BASIN D

 73 KO          OUTPUT CONTROL VARIABLES
                      IPRNT           2  PRINT CONTROL
                      IPLOT           0  PLOT CONTROL
                      QSCAL          0.  HYDROGRAPH PLOT SCALE

            HYDROGRAPH ROUTING DATA

 69 RS          STORAGE ROUTING
                      NSTPS           3  NUMBER OF SUBREACHES
                       ITYP        FLOW  TYPE OF INITIAL CONDITION
                     RSVRIC         .00  INITIAL CONDITION
                          X         .00 WORKING R AND D COEFFICIENT

 70 RC          NORMAL DEPTH CHANNEL
                        ANL        .025  LEFT OVERBANK N-VALUE
                       ANCH        .015  MAIN CHANNEL N-VALUE
                        ANR        .025  RIGHT OVERBANK N-VALUE
                      RLNTH       4150.  REACH LENGTH
                        SEL       .0011  ENERGY SLOPE
                      ELMAX       104.8  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                   CROSS-SECTION DATA
                        --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
  2 RY        ELEVATION    102.00    101.00    100.00    102.00    101.00    101.88    102.76    104.76
  1 RX        DISTANCE     100.00    150.00    152.00    156.00    158.00    202.00    246.00    250.00

                                                   ***

                                   COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

          STORAGE        .00       .01       .05       .11       .19       .60      1.64      3.29      5.57      8.30
          OUTFLOW        .00       .08       .49      1.44      3.01      5.81     20.46     51.04    106.18    195.77
        ELEVATION     100.00    100.25    100.50    100.75    101.00    101.25    101.50    101.75    102.00    102.25

          STORAGE      11.33     14.66     18.15     21.66     25.17     28.70     32.23     35.79     39.35     42.92
          OUTFLOW     309.64    447.95    614.54    803.98   1014.78   1245.86   1496.36   1765.55   2052.82   2357.65
        ELEVATION     102.51    102.76    103.01    103.26    103.51    103.76    104.01    104.26    104.51    104.76


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                                   HYDROGRAPH AT STATION    RTEAB
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DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	100.0	1		0820	101	33.	.8	101.6	1		1640	201	0.	.0	100.1
1		0005	2	0.	.0	100.0	1		0825	102	31.	.7	101.6	1		1645	202	0.	.0	100.1
1		0010	3	0.	.0	100.0	1		0830	103	29.	.7	101.6	1		1650	203	0.	.0	100.1
1		0015	4	0.	.0	100.0	1		0835	104	27.	.7	101.6	1		1655	204	0.	.0	100.0
1		0020	5	0.	.0	100.0	1		0840	105	26.	.6	101.5	1		1700	205	0.	.0	100.0
1		0025	6	0.	.0	100.0	1		0845	106	24.	.6	101.5	1		1705	206	0.	.0	100.0
1		0030	7	0.	.0	100.0	1		0850	107	23.	.6	101.5	1		1710	207	0.	.0	100.0
1		0035	8	0.	.0	100.0	1		0855	108	22.	.6	101.5	1		1715	208	0.	.0	100.0
1		0040	9	0.	.0	100.0	1		0900	109	21.	.5	101.5	1		1720	209	0.	.0	100.0
1		0045	10	0.	.0	100.0	1		0905	110	20.	.5	101.5	1		1725	210	0.	.0	100.0
1		0050	11	0.	.0	100.0	1		0910	111	19.	.5	101.5	1		1730	211	0.	.0	100.0
1		0055	12	0.	.0	100.0	1		0915	112	18.	.5	101.5	1		1735	212	0.	.0	100.0
1		0100	13	0.	.0	100.0	1		0920	113	17.	.5	101.4	1		1740	213	0.	.0	100.0
1		0105	14	0.	.0	100.0	1		0925	114	16.	.4	101.4	1		1745	214	0.	.0	100.0
1		0110	15	0.	.0	100.0	1		0930	115	15.	.4	101.4	1		1750	215	0.	.0	100.0
1		0115	16	0.	.0	100.0	1		0935	116	15.	.4	101.4	1		1755	216	0.	.0	100.0
1		0120	17	0.	.0	100.0	1		0940	117	14.	.4	101.4	1		1800	217	0.	.0	100.0
1		0125	18	0.	.0	100.0	1		0945	118	13.	.4	101.4	1		1805	218	0.	.0	100.0
1		0130	19	0.	.0	100.0	1		0950	119	12.	.4	101.4	1		1810	219	0.	.0	100.0
1		0135	20	0.	.0	100.0	1		0955	120	12.	.3	101.4	1		1815	220	0.	.0	100.0
1		0140	21	0.	.0	100.0	1		1000	121	11.	.3	101.3	1		1820	221	0.	.0	100.0
1		0145	22	0.	.0	100.0	1		1005	122	11.	.3	101.3	1		1825	222	0.	.0	100.0
1		0150	23	0.	.0	100.0	1		1010	123	10.	.3	101.3	1		1830	223	0.	.0	100.0
1		0155	24	0.	.0	100.0	1		1015	124	9.	.3	101.3	1		1835	224	0.	.0	100.0
1		0200	25	0.	.0	100.0	1		1020	125	9.	.3	101.3	1		1840	225	0.	.0	100.0
1		0205	26	0.	.0	100.1	1		1025	126	8.	.3	101.3	1		1845	226	0.	.0	100.0
1		0210	27	0.	.0	100.1	1		1030	127	8.	.2	101.3	1		1850	227	0.	.0	100.0
1		0215	28	0.	.0	100.3	1		1035	128	7.	.2	101.3	1		1855	228	0.	.0	100.0
1		0220	29	0.	.0	100.3	1		1040	129	7.	.2	101.3	1		1900	229	0.	.0	100.0
1		0225	30	0.	.0	100.4	1		1045	130	7.	.2	101.3	1		1905	230	0.	.0	100.0
1		0230	31	0.	.0	100.4	1		1050	131	6.	.2	101.3	1		1910	231	0.	.0	100.0
1		0235	32	0.	.0	100.5	1		1055	132	6.	.2	101.3	1		1915	232	0.	.0	100.0
1		0240	33	1.	.0	100.6	1		1100	133	6.	.2	101.3	1		1920	233	0.	.0	100.0
1		0245	34	1.	.0	100.6	1		1105	134	6.	.2	101.3	1		1925	234	0.	.0	100.0
1		0250	35	1.	.0	100.6	1		1110	135	6.	.2	101.2	1		1930	235	0.	.0	100.0
1		0255	36	1.	.0	100.7	1		1115	136	6.	.2	101.2	1		1935	236	0.	.0	100.0
1		0300	37	1.	.0	100.7	1		1120	137	5.	.2	101.2	1		1940	237	0.	.0	100.0
1		0305	38	1.	.0	100.7	1		1125	138	5.	.2	101.2	1		1945	238	0.	.0	100.0
1		0310	39	2.	.0	100.8	1		1130	139	5.	.2	101.2	1		1950	239	0.	.0	100.0
1		0315	40	2.	.0	100.8	1		1135	140	5.	.2	101.2	1		1955	240	0.	.0	100.0
1		0320	41	2.	.0	100.8	1		1140	141	5.	.2	101.2	1		2000	241	0.	.0	100.0
1		0325	42	2.	.0	100.8	1		1145	142	5.	.1	101.2	1		2005	242	0.	.0	100.0
1		0330	43	2.	.0	100.8	1		1150	143	5.	.1	101.1	1		2010	243	0.	.0	100.0
1		0335	44	2.	.0	100.8	1		1155	144	4.	.1	101.1	1		2015	244	0.	.0	100.0
1		0340	45	2.	.0	100.8	1		1200	145	4.	.1	101.1	1		2020	245	0.	.0	100.0
1		0345	46	2.	.0	100.8	1		1205	146	4.	.1	101.1	1		2025	246	0.	.0	100.0
1		0350	47	2.	.0	100.8	1		1210	147	3.	.1	101.0	1		2030	247	0.	.0	100.0
1		0355	48	2.	.0	100.9	1		1215	148	3.	.1	101.0	1		2035	248	0.	.0	100.0
1		0400	49	2.	.1	100.9	1		1220	149	3.	.1	100.9	1		2040	249	0.	.0	100.0
1		0405	50	3.	.1	100.9	1		1225	150	2.	.0	100.8	1		2045	250	0.	.0	100.0
1		0410	51	3.	.1	101.0	1		1230	151	2.	.0	100.8	1		2050	251	0.	.0	100.0
1		0415	52	3.	.1	101.0	1		1235	152	1.	.0	100.7	1		2055	252	0.	.0	100.0
1		0420	53	4.	.1	101.1	1		1240	153	1.	.0	100.6	1		2100	253	0.	.0	100.0
1		0425	54	5.	.2	101.2	1		1245	154	1.	.0	100.6	1		2105	254	0.	.0	100.0
1		0430	55	11.	.3	101.3	1		1250	155	1.	.0	100.6	1		2110	255	0.	.0	100.0

1	0435	56	19.	.5	101.5	*	1	1255	156	1.	.0	100.5	*	1	2115	256	0.	.0	100.0
1	0440	57	35.	.8	101.6	*	1	1300	157	0.	.0	100.5	*	1	2120	257	0.	.0	100.0
1	0445	58	56.	1.2	101.8	*	1	1305	158	0.	.0	100.5	*	1	2125	258	0.	.0	100.0
1	0450	59	85.	1.6	101.9	*	1	1310	159	0.	.0	100.4	*	1	2130	259	0.	.0	100.0
1	0455	60	118.	2.0	102.0	*	1	1315	160	0.	.0	100.4	*	1	2135	260	0.	.0	100.0
1	0500	61	153.	2.3	102.1	*	1	1320	161	0.	.0	100.4	*	1	2140	261	0.	.0	100.0
1	0505	62	183.	2.6	102.2	*	1	1325	162	0.	.0	100.4	*	1	2145	262	0.	.0	100.0
1	0510	63	210.	2.9	102.3	*	1	1330	163	0.	.0	100.3	*	1	2150	263	0.	.0	100.0
1	0515	64	234.	3.1	102.3	*	1	1335	164	0.	.0	100.3	*	1	2155	264	0.	.0	100.0
1	0520	65	251.	3.3	102.4	*	1	1340	165	0.	.0	100.3	*	1	2200	265	0.	.0	100.0
1	0525	66	261.	3.3	102.4	*	1	1345	166	0.	.0	100.3	*	1	2205	266	0.	.0	100.0
1	0530	67	266.	3.4	102.4	*	1	1350	167	0.	.0	100.3	*	1	2210	267	0.	.0	100.0
1	0535	68	264.	3.4	102.4	*	1	1355	168	0.	.0	100.3	*	1	2215	268	0.	.0	100.0
1	0540	69	258.	3.3	102.4	*	1	1400	169	0.	.0	100.3	*	1	2220	269	0.	.0	100.0
1	0545	70	249.	3.2	102.4	*	1	1405	170	0.	.0	100.3	*	1	2225	270	0.	.0	100.0
1	0550	71	237.	3.1	102.3	*	1	1410	171	0.	.0	100.3	*	1	2230	271	0.	.0	100.0
1	0555	72	223.	3.0	102.3	*	1	1415	172	0.	.0	100.3	*	1	2235	272	0.	.0	100.0
1	0600	73	209.	2.9	102.3	*	1	1420	173	0.	.0	100.3	*	1	2240	273	0.	.0	100.0
1	0605	74	195.	2.8	102.3	*	1	1425	174	0.	.0	100.2	*	1	2245	274	0.	.0	100.0
1	0610	75	183.	2.6	102.2	*	1	1430	175	0.	.0	100.2	*	1	2250	275	0.	.0	100.0
1	0615	76	171.	2.5	102.2	*	1	1435	176	0.	.0	100.2	*	1	2255	276	0.	.0	100.0
1	0620	77	159.	2.4	102.2	*	1	1440	177	0.	.0	100.2	*	1	2300	277	0.	.0	100.0
1	0625	78	148.	2.3	102.1	*	1	1445	178	0.	.0	100.2	*	1	2305	278	0.	.0	100.0
1	0630	79	136.	2.2	102.1	*	1	1450	179	0.	.0	100.2	*	1	2310	279	0.	.0	100.0
1	0635	80	126.	2.1	102.1	*	1	1455	180	0.	.0	100.2	*	1	2315	280	0.	.0	100.0
1	0640	81	117.	2.0	102.0	*	1	1500	181	0.	.0	100.2	*	1	2320	281	0.	.0	100.0
1	0645	82	109.	1.9	102.0	*	1	1505	182	0.	.0	100.2	*	1	2325	282	0.	.0	100.0
1	0650	83	103.	1.8	102.0	*	1	1510	183	0.	.0	100.2	*	1	2330	283	0.	.0	100.0
1	0655	84	98.	1.7	102.0	*	1	1515	184	0.	.0	100.1	*	1	2335	284	0.	.0	100.0
1	0700	85	92.	1.7	101.9	*	1	1520	185	0.	.0	100.1	*	1	2340	285	0.	.0	100.0
1	0705	86	86.	1.6	101.9	*	1	1525	186	0.	.0	100.1	*	1	2345	286	0.	.0	100.0
1	0710	87	80.	1.5	101.9	*	1	1530	187	0.	.0	100.1	*	1	2350	287	0.	.0	100.0
1	0715	88	75.	1.4	101.9	*	1	1535	188	0.	.0	100.1	*	1	2355	288	0.	.0	100.0
1	0720	89	70.	1.4	101.8	*	1	1540	189	0.	.0	100.1	*	2	0000	289	0.	.0	100.0
1	0725	90	65.	1.3	101.8	*	1	1545	190	0.	.0	100.1	*	2	0005	290	0.	.0	100.0
1	0730	91	61.	1.2	101.8	*	1	1550	191	0.	.0	100.1	*	2	0010	291	0.	.0	100.0
1	0735	92	57.	1.2	101.8	*	1	1555	192	0.	.0	100.1	*	2	0015	292	0.	.0	100.0
1	0740	93	53.	1.1	101.8	*	1	1600	193	0.	.0	100.1	*	2	0020	293	0.	.0	100.0
	0745	94	50.	1.1	101.7	*	1	1605	194	0.	.0	100.1	*	2	0025	294	0.	.0	100.0
	0750	95	48.	1.0	101.7	*	1	1610	195	0.	.0	100.1	*	2	0030	295	0.	.0	100.0
	0755	96	45.	1.0	101.7	*	1	1615	196	0.	.0	100.1	*	2	0035	296	0.	.0	100.0
	0800	97	42.	.9	101.7	*	1	1620	197	0.	.0	100.1	*	2	0040	297	0.	.0	100.0
	0805	98	40.	.9	101.7	*	1	1625	198	0.	.0	100.1	*	2	0045	298	0.	.0	100.0
	0810	99	38.	.9	101.6	*	1	1630	199	0.	.0	100.1	*	2	0050	299	0.	.0	100.0
	0815	100	35.	.8	101.6	*	1	1635	200	0.	.0	100.1	*	2	0055	300	0.	.0	100.0
						*							*						

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)					
		(CFS)				
266.	5.50		87.	22.	22.	22.
		(INCHES)	.792	.815	.815	.815
		(AC-FT)	43.	44.	44.	44.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
(AC-FT)	(HR)				
3.	5.50	1.	0.	0.	0.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
102.41	5.50	101.80	100.67	100.64	100.64

CUMULATIVE AREA = 1.02 SQ MI

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          **************
          *            *
74 KK     *     D      *
          *            *
          **************
                    SUB-BASIN D
                    6-HOUR RAINFALL, PATTERN NO. 2.00 WAS USED TO FIND TC & R FOR THIS BASIN
                    THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .975
                      L = 1.80  Kb = .048  Adj. Slope =   5.5

84 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          2  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL         0.  HYDROGRAPH PLOT SCALE

             SUBBASIN RUNOFF DATA

79 BA          SUBBASIN CHARACTERISTICS
                     TAREA        .69  SUBBASIN AREA

               PRECIPITATION DATA

14 PB                STORM       1.94  BASIN TOTAL PRECIPITATION

14 PI            INCREMENTAL PRECIPITATION PATTERN
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00       .00       .01       .01       .01       .01       .01       .01       .03
                     .03       .03       .06       .06       .06       .08       .08       .08       .05       .05
                     .05       .02       .02       .02       .01       .01       .01       .00       .00       .00
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00

80 LG          GREEN AND AMPT LOSS RATE
                     STRTL        .27  STARTING LOSS
                       DTH        .25  MOISTURE DEFICIT
                      PSIF       3.60  WETTING FRONT SUCTION
                     XKSAT        .15  HYDRAULIC CONDUCTIVITY
                     RTIMP      23.00  PERCENT IMPERVIOUS AREA

81 UC          CLARK UNITGRAPH
                        TC       1.50  TIME OF CONCENTRATION
                         R       1.15  STORAGE COEFFICIENT

82 UA          ACCUMULATED-AREA VS. TIME,  11 ORDINATES
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.0	3.0	5.0	8.0	12.0	20.0	43.0	75.0	90.0	96.0
100.0									

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UNIT HYDROGRAPH PARAMETERS

CLARK TC= 1.50 HR, R= 1.15 HR

SNYDER TP= 1.28 HR, CP= .72

UNIT HYDROGRAPH

85 END-OF-PERIOD ORDINATES

3.	9.	13.	17.	21.	27.	33.	42.	55.	83.
127.	177.	224.	250.	258.	256.	249.	240.	227.	211.
197.	183.	170.	158.	147.	137.	127.	118.	110.	102.
95.	88.	82.	77.	71.	66.	62.	57.	53.	50.
46.	43.	40.	37.	34.	32.	30.	28.	26.	24.
22.	21.	19.	18.	17.	16.	14.	13.	12.	12.
11.	10.	9.	9.	8.	8.	7.	6.	6.	6.
5.	5.	5.	4.	4.	4.	3.	3.	3.	3.
3.	2.	2.	2.	2.					

****

HYDROGRAPH AT STATION D

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1		0000	1	.00	.00	.00	0.	*	1		1230	151	.00	.00	.00	0.
1		0005	2	.01	.00	.00	0.	*	1		1235	152	.00	.00	.00	0.
1		0010	3	.01	.00	.00	0.	*	1		1240	153	.00	.00	.00	0.
1		0015	4	.01	.00	.00	0.	*	1		1245	154	.00	.00	.00	0.
1		0020	5	.00	.00	.00	0.	*	1		1250	155	.00	.00	.00	0.
1		0025	6	.00	.00	.00	0.	*	1		1255	156	.00	.00	.00	0.
1		0030	7	.00	.00	.00	0.	*	1		1300	157	.00	.00	.00	0.
1		0035	8	.01	.00	.00	0.	*	1		1305	158	.00	.00	.00	0.
1		0040	9	.01	.00	.00	0.	*	1		1310	159	.00	.00	.00	0.
1		0045	10	.01	.00	.00	0.	*	1		1315	160	.00	.00	.00	0.
1		0050	11	.01	.00	.00	0.	*	1		1320	161	.00	.00	.00	0.
1		0055	12	.01	.00	.00	1.	*	1		1325	162	.00	.00	.00	0.
1		0100	13	.01	.00	.00	1.	*	1		1330	163	.00	.00	.00	0.
1		0105	14	.01	.00	.00	1.	*	1		1335	164	.00	.00	.00	0.
1		0110	15	.01	.00	.00	1.	*	1		1340	165	.00	.00	.00	0.
1		0115	16	.01	.00	.00	2.	*	1		1345	166	.00	.00	.00	0.
1		0120	17	.01	.00	.00	2.	*	1		1350	167	.00	.00	.00	0.
1		0125	18	.01	.00	.00	2.	*	1		1355	168	.00	.00	.00	0.
1		0130	19	.01	.00	.00	3.	*	1		1400	169	.00	.00	.00	0.
1		0135	20	.01	.00	.00	3.	*	1		1405	170	.00	.00	.00	0.
1		0140	21	.01	.00	.00	3.	*	1		1410	171	.00	.00	.00	0.
1		0145	22	.01	.00	.00	4.	*	1		1415	172	.00	.00	.00	0.
1		0150	23	.01	.00	.00	4.	*	1		1420	173	.00	.00	.00	0.
1		0155	24	.01	.00	.00	4.	*	1		1425	174	.00	.00	.00	0.
1		0200	25	.01	.00	.00	4.	*	1		1430	175	.00	.00	.00	0.
1		0205	26	.01	.00	.00	5.	*	1		1435	176	.00	.00	.00	0.
1		0210	27	.01	.00	.00	5.	*	1		1440	177	.00	.00	.00	0.
1		0215	28	.01	.00	.00	5.	*	1		1445	178	.00	.00	.00	0.
1		0220	29	.01	.01	.00	5.	*	1		1450	179	.00	.00	.00	0.
1		0225	30	.01	.01	.00	5.	*	1		1455	180	.00	.00	.00	0.
1		0230	31	.01	.01	.00	5.	*	1		1500	181	.00	.00	.00	0.

1	0235	32	.01	.01	.00	5.	*	1	1505	182	.00	.00	.00	0.
1	0240	33	.01	.01	.00	6.	*	1	1510	183	.00	.00	.00	0.
1	0245	34	.01	.01	.00	6.	*	1	1515	184	.00	.00	.00	0.
1	0250	35	.01	.01	.00	6.	*	1	1520	185	.00	.00	.00	0.
1	0255	36	.01	.01	.00	6.	*	1	1525	186	.00	.00	.00	0.
1	0300	37	.01	.01	.00	6.	*	1	1530	187	.00	.00	.00	0.
1	0305	38	.03	.02	.01	6.	*	1	1535	188	.00	.00	.00	0.
1	0310	39	.03	.02	.01	6.	*	1	1540	189	.00	.00	.00	0.
1	0315	40	.03	.02	.01	7.	*	1	1545	190	.00	.00	.00	0.
1	0320	41	.06	.04	.01	7.	*	1	1550	191	.00	.00	.00	0.
1	0325	42	.06	.04	.01	7.	*	1	1555	192	.00	.00	.00	0.
1	0330	43	.06	.04	.01	8.	*	1	1600	193	.00	.00	.00	0.
1	0335	44	.13	.04	.08	9.	*	1	1605	194	.00	.00	.00	0.
1	0340	45	.13	.04	.09	10.	*	1	1610	195	.00	.00	.00	0.
1	0345	46	.13	.03	.09	12.	*	1	1615	196	.00	.00	.00	0.
1	0350	47	.15	.03	.12	14.	*	1	1620	197	.00	.00	.00	0.
1	0355	48	.15	.03	.12	17.	*	1	1625	198	.00	.00	.00	0.
1	0400	49	.15	.03	.13	21.	*	1	1630	199	.00	.00	.00	0.
1	0405	50	.09	.03	.06	25.	*	1	1635	200	.00	.00	.00	0.
1	0410	51	.09	.03	.07	31.	*	1	1640	201	.00	.00	.00	0.
1	0415	52	.09	.02	.07	38.	*	1	1645	202	.00	.00	.00	0.
1	0420	53	.04	.02	.02	47.	*	1	1650	203	.00	.00	.00	0.
1	0425	54	.04	.02	.02	59.	*	1	1655	204	.00	.00	.00	0.
1	0430	55	.04	.02	.02	75.	*	1	1700	205	.00	.00	.00	0.
1	0435	56	.03	.02	.01	94.	*	1	1705	206	.00	.00	.00	0.
1	0440	57	.03	.02	.01	117.	*	1	1710	207	.00	.00	.00	0.
1	0445	58	.03	.02	.01	141.	*	1	1715	208	.00	.00	.00	0.
1	0450	59	.01	.01	.00	164.	*	1	1720	209	.00	.00	.00	0.
1	0455	60	.01	.01	.00	184.	*	1	1725	210	.00	.00	.00	0.
1	0500	61	.01	.01	.00	200.	*	1	1730	211	.00	.00	.00	0.
1	0505	62	.01	.01	.00	211.	*	1	1735	212	.00	.00	.00	0.
1	0510	63	.01	.01	.00	216.	*	1	1740	213	.00	.00	.00	0.
1	0515	64	.01	.01	.00	217.	*	1	1745	214	.00	.00	.00	0.
1	0520	65	.01	.01	.00	214.	*	1	1750	215	.00	.00	.00	0.
1	0525	66	.01	.01	.00	208.	*	1	1755	216	.00	.00	.00	0.
1	0530	67	.01	.01	.00	199.	*	1	1800	217	.00	.00	.00	0.
1	0535	68	.01	.01	.00	189.	*	1	1805	218	.00	.00	.00	0.
1	0540	69	.01	.01	.00	179.	*	1	1810	219	.00	.00	.00	0.
1	0545	70	.01	.01	.00	169.	*	1	1815	220	.00	.00	.00	0.
1	0550	71	.01	.01	.00	158.	*	1	1820	221	.00	.00	.00	0.
1	0555	72	.01	.01	.00	149.	*	1	1825	222	.00	.00	.00	0.
1	0600	73	.01	.01	.00	139.	*	1	1830	223	.00	.00	.00	0.
1	0605	74	.00	.00	.00	130.	*	1	1835	224	.00	.00	.00	0.
1	0610	75	.00	.00	.00	122.	*	1	1840	225	.00	.00	.00	0.
1	0615	76	.00	.00	.00	114.	*	1	1845	226	.00	.00	.00	0.
1	0620	77	.00	.00	.00	107.	*	1	1850	227	.00	.00	.00	0.
1	0625	78	.00	.00	.00	100.	*	1	1855	228	.00	.00	.00	0.
1	0630	79	.00	.00	.00	94.	*	1	1900	229	.00	.00	.00	0.
1	0635	80	.00	.00	.00	88.	*	1	1905	230	.00	.00	.00	0.
1	0640	81	.00	.00	.00	82.	*	1	1910	231	.00	.00	.00	0.
1	0645	82	.00	.00	.00	77.	*	1	1915	232	.00	.00	.00	0.
1	0650	83	.00	.00	.00	72.	*	1	1920	233	.00	.00	.00	0.
1	0655	84	.00	.00	.00	67.	*	1	1925	234	.00	.00	.00	0.
1	0700	85	.00	.00	.00	63.	*	1	1930	235	.00	.00	.00	0.
1	0705	86	.00	.00	.00	59.	*	1	1935	236	.00	.00	.00	0.
1	0710	87	.00	.00	.00	55.	*	1	1940	237	.00	.00	.00	0.
1	0715	88	.00	.00	.00	51.	*	1	1945	238	.00	.00	.00	0.
1	0720	89	.00	.00	.00	47.	*	1	1950	239	.00	.00	.00	0.
1	0725	90	.00	.00	.00	44.	*	1	1955	240	.00	.00	.00	0.
1	0730	91	.00	.00	.00	41.	*	1	2000	241	.00	.00	.00	0.

1	0735	92	.00	.00	.00	38.	*	1	2005	242	.00	.00	.00	0.
1	0740	93	.00	.00	.00	36.	*	1	2010	243	.00	.00	.00	0.
1	0745	94	.00	.00	.00	33.	*	1	2015	244	.00	.00	.00	0.
1	0750	95	.00	.00	.00	31.	*	1	2020	245	.00	.00	.00	0.
1	0755	96	.00	.00	.00	29.	*	1	2025	246	.00	.00	.00	0.
1	0800	97	.00	.00	.00	27.	*	1	2030	247	.00	.00	.00	0.
1	0805	98	.00	.00	.00	25.	*	1	2035	248	.00	.00	.00	0.
1	0810	99	.00	.00	.00	23.	*	1	2040	249	.00	.00	.00	0.
1	0815	100	.00	.00	.00	21.	*	1	2045	250	.00	.00	.00	0.
1	0820	101	.00	.00	.00	20.	*	1	2050	251	.00	.00	.00	0.
1	0825	102	.00	.00	.00	18.	*	1	2055	252	.00	.00	.00	0.
1	0830	103	.00	.00	.00	17.	*	1	2100	253	.00	.00	.00	0.
1	0835	104	.00	.00	.00	16.	*	1	2105	254	.00	.00	.00	0.
1	0840	105	.00	.00	.00	15.	*	1	2110	255	.00	.00	.00	0.
1	0845	106	.00	.00	.00	14.	*	1	2115	256	.00	.00	.00	0.
1	0850	107	.00	.00	.00	13.	*	1	2120	257	.00	.00	.00	0.
1	0855	108	.00	.00	.00	12.	*	1	2125	258	.00	.00	.00	0.
1	0900	109	.00	.00	.00	11.	*	1	2130	259	.00	.00	.00	0.
1	0905	110	.00	.00	.00	10.	*	1	2135	260	.00	.00	.00	0.
1	0910	111	.00	.00	.00	10.	*	1	2140	261	.00	.00	.00	0.
1	0915	112	.00	.00	.00	9.	*	1	2145	262	.00	.00	.00	0.
1	0920	113	.00	.00	.00	8.	*	1	2150	263	.00	.00	.00	0.
1	0925	114	.00	.00	.00	8.	*	1	2155	264	.00	.00	.00	0.
1	0930	115	.00	.00	.00	7.	*	1	2200	265	.00	.00	.00	0.
1	0935	116	.00	.00	.00	7.	*	1	2205	266	.00	.00	.00	0.
1	0940	117	.00	.00	.00	6.	*	1	2210	267	.00	.00	.00	0.
1	0945	118	.00	.00	.00	6.	*	1	2215	268	.00	.00	.00	0.
1	0950	119	.00	.00	.00	5.	*	1	2220	269	.00	.00	.00	0.
1	0955	120	.00	.00	.00	5.	*	1	2225	270	.00	.00	.00	0.
1	1000	121	.00	.00	.00	5.	*	1	2230	271	.00	.00	.00	0.
1	1005	122	.00	.00	.00	4.	*	1	2235	272	.00	.00	.00	0.
1	1010	123	.00	.00	.00	4.	*	1	2240	273	.00	.00	.00	0.
1	1015	124	.00	.00	.00	4.	*	1	2245	274	.00	.00	.00	0.
1	1020	125	.00	.00	.00	3.	*	1	2250	275	.00	.00	.00	0.
1	1025	126	.00	.00	.00	3.	*	1	2255	276	.00	.00	.00	0.
1	1030	127	.00	.00	.00	3.	*	1	2300	277	.00	.00	.00	0.
1	1035	128	.00	.00	.00	3.	*	1	2305	278	.00	.00	.00	0.
1	1040	129	.00	.00	.00	2.	*	1	2310	279	.00	.00	.00	0.
1	1045	130	.00	.00	.00	2.	*	1	2315	280	.00	.00	.00	0.
1	1050	131	.00	.00	.00	2.	*	1	2320	281	.00	.00	.00	0.
1	1055	132	.00	.00	.00	1.	*	1	2325	282	.00	.00	.00	0.
1	1100	133	.00	.00	.00	1.	*	1	2330	283	.00	.00	.00	0.
1	1105	134	.00	.00	.00	1.	*	1	2335	284	.00	.00	.00	0.
1	1110	135	.00	.00	.00	1.	*	1	2340	285	.00	.00	.00	0.
1	1115	136	.00	.00	.00	0.	*	1	2345	286	.00	.00	.00	0.
1	1120	137	.00	.00	.00	0.	*	1	2350	287	.00	.00	.00	0.
1	1125	138	.00	.00	.00	0.	*	1	2355	288	.00	.00	.00	0.
1	1130	139	.00	.00	.00	0.	*	2	0000	289	.00	.00	.00	0.
1	1135	140	.00	.00	.00	0.	*	2	0005	290	.00	.00	.00	0.
1	1140	141	.00	.00	.00	0.	*	2	0010	291	.00	.00	.00	0.
1	1145	142	.00	.00	.00	0.	*	2	0015	292	.00	.00	.00	0.
1	1150	143	.00	.00	.00	0.	*	2	0020	293	.00	.00	.00	0.
1	1155	144	.00	.00	.00	0.	*	2	0025	294	.00	.00	.00	0.
1	1200	145	.00	.00	.00	0.	*	2	0030	295	.00	.00	.00	0.
1	1205	146	.00	.00	.00	0.	*	2	0035	296	.00	.00	.00	0.
1	1210	147	.00	.00	.00	0.	*	2	0040	297	.00	.00	.00	0.
1	1215	148	.00	.00	.00	0.	*	2	0045	298	.00	.00	.00	0.
1	1220	149	.00	.00	.00	0.	*	2	0050	299	.00	.00	.00	0.
1	1225	150	.00	.00	.00	0.	*	2	0055	300	.00	.00	.00	0.
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   TOTAL RAINFALL =    1.94, TOTAL LOSS =     .89, TOTAL EXCESS =    1.05

 PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                     6-HR       24-HR       72-HR     24.92-HR
  (CFS)       (HR)
                          (CFS)
    217.      5.25                    75.         19.         19.         19.
                         (INCHES)    1.007       1.047       1.047       1.047
                          (AC-FT)     37.         38.         38.         38.

                         CUMULATIVE AREA =     .69 SQ MI


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


          **************
          *            *
 85 KK    *     RTED   *
          *            *
          **************
                         ROUTE SUB BASIN D THROUGH RESERVOIR TO REMOVE DEVELOPED AREA STORAGE

 92 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

            HYDROGRAPH ROUTING DATA

 87 RS          STORAGE ROUTING
                      NSTPS          1  NUMBER OF SUBREACHES
                       ITYP       STOR  TYPE OF INITIAL CONDITION
                     RSVRIC        .00  INITIAL CONDITION
                          X        .00 WORKING R AND D COEFFICIENT

 88 SV            STORAGE          .0      10.0      20.0      30.0      35.3      37.7      40.0

 89 SE          ELEVATION      100.00    101.00    102.00    103.00    104.00    104.50    105.00

 90 SQ          DISCHARGE         0.        0.        0.        0.        0.     1500.     3000.

 91 SE          ELEVATION      100.00    101.00    102.00    103.00    104.00    104.50    105.00

                                                                 ***

                                                COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

          STORAGE        .00     10.00     20.00     30.00     35.29     37.65     40.00
          OUTFLOW        .00       .00       .00       .00       .00   1500.00   3000.00
        ELEVATION     100.00    101.00    102.00    103.00    104.00    104.50    105.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN        0. TO     3000.
                THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
                THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)
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HYDROGRAPH AT STATION RTED

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	100.0	1		0820	101	20.	35.3	104.0	1		1640	201	0.	35.3	104.0
1		0005	2	0.	.0	100.0	1		0825	102	19.	35.3	104.0	1		1645	202	0.	35.3	104.0
1		0010	3	0.	.0	100.0	1		0830	103	17.	35.3	104.0	1		1650	203	0.	35.3	104.0
1		0015	4	0.	.0	100.0	1		0835	104	16.	35.3	104.0	1		1655	204	0.	35.3	104.0
1		0020	5	0.	.0	100.0	1		0840	105	15.	35.3	104.0	1		1700	205	0.	35.3	104.0
1		0025	6	0.	.0	100.0	1		0845	106	14.	35.3	104.0	1		1705	206	0.	35.3	104.0
1		0030	7	0.	.0	100.0	1		0850	107	13.	35.3	104.0	1		1710	207	0.	35.3	104.0
1		0035	8	0.	.0	100.0	1		0855	108	12.	35.3	104.0	1		1715	208	0.	35.3	104.0
1		0040	9	0.	.0	100.0	1		0900	109	11.	35.3	104.0	1		1720	209	0.	35.3	104.0
1		0045	10	0.	.0	100.0	1		0905	110	11.	35.3	104.0	1		1725	210	0.	35.3	104.0
1		0050	11	0.	.0	100.0	1		0910	111	10.	35.3	104.0	1		1730	211	0.	35.3	104.0
1		0055	12	0.	.0	100.0	1		0915	112	9.	35.3	104.0	1		1735	212	0.	35.3	104.0
1		0100	13	0.	.0	100.0	1		0920	113	8.	35.3	104.0	1		1740	213	0.	35.3	104.0
1		0105	14	0.	.0	100.0	1		0925	114	8.	35.3	104.0	1		1745	214	0.	35.3	104.0
1		0110	15	0.	.0	100.0	1		0930	115	7.	35.3	104.0	1		1750	215	0.	35.3	104.0
1		0115	16	0.	.0	100.0	1		0935	116	7.	35.3	104.0	1		1755	216	0.	35.3	104.0
1		0120	17	0.	.1	100.0	1		0940	117	6.	35.3	104.0	1		1800	217	0.	35.3	104.0
1		0125	18	0.	.1	100.0	1		0945	118	6.	35.3	104.0	1		1805	218	0.	35.3	104.0
1		0130	19	0.	.1	100.0	1		0950	119	5.	35.3	104.0	1		1810	219	0.	35.3	104.0
1		0135	20	0.	.1	100.0	1		0955	120	5.	35.3	104.0	1		1815	220	0.	35.3	104.0
1		0140	21	0.	.1	100.0	1		1000	121	5.	35.3	104.0	1		1820	221	0.	35.3	104.0
1		0145	22	0.	.2	100.0	1		1005	122	4.	35.3	104.0	1		1825	222	0.	35.3	104.0
1		0150	23	0.	.2	100.0	1		1010	123	4.	35.3	104.0	1		1830	223	0.	35.3	104.0
1		0155	24	0.	.2	100.0	1		1015	124	4.	35.3	104.0	1		1835	224	0.	35.3	104.0
1		0200	25	0.	.2	100.0	1		1020	125	3.	35.3	104.0	1		1840	225	0.	35.3	104.0
1		0205	26	0.	.3	100.0	1		1025	126	3.	35.3	104.0	1		1845	226	0.	35.3	104.0
1		0210	27	0.	.3	100.0	1		1030	127	3.	35.3	104.0	1		1850	227	0.	35.3	104.0
1		0215	28	0.	.3	100.0	1		1035	128	3.	35.3	104.0	1		1855	228	0.	35.3	104.0
1		0220	29	0.	.4	100.0	1		1040	129	2.	35.3	104.0	1		1900	229	0.	35.3	104.0
1		0225	30	0.	.4	100.0	1		1045	130	2.	35.3	104.0	1		1905	230	0.	35.3	104.0
		0230	31	0.	.4	100.0	1		1050	131	2.	35.3	104.0	1		1910	231	0.	35.3	104.0
		0235	32	0.	.5	100.0	1		1055	132	1.	35.3	104.0	1		1915	232	0.	35.3	104.0
		0240	33	0.	.5	100.1	1		1100	133	1.	35.3	104.0	1		1920	233	0.	35.3	104.0
		0245	34	0.	.6	100.1	1		1105	134	1.	35.3	104.0	1		1925	234	0.	35.3	104.0
		0250	35	0.	.6	100.1	1		1110	135	1.	35.3	104.0	1		1930	235	0.	35.3	104.0
		0255	36	0.	.6	100.1	1		1115	136	0.	35.3	104.0	1		1935	236	0.	35.3	104.0
		0300	37	0.	.7	100.1	1		1120	137	0.	35.3	104.0	1		1940	237	0.	35.3	104.0
1		0305	38	0.	.7	100.1	1		1125	138	0.	35.3	104.0	1		1945	238	0.	35.3	104.0
1		0310	39	0.	.8	100.1	1		1130	139	0.	35.3	104.0	1		1950	239	0.	35.3	104.0
1		0315	40	0.	.8	100.1	1		1135	140	0.	35.3	104.0	1		1955	240	0.	35.3	104.0
1		0320	41	0.	.9	100.1	1		1140	141	0.	35.3	104.0	1		2000	241	0.	35.3	104.0
1		0325	42	0.	.9	100.1	1		1145	142	0.	35.3	104.0	1		2005	242	0.	35.3	104.0
1		0330	43	0.	1.0	100.1	1		1150	143	0.	35.3	104.0	1		2010	243	0.	35.3	104.0
1		0335	44	0.	1.0	100.1	1		1155	144	0.	35.3	104.0	1		2015	244	0.	35.3	104.0
1		0340	45	0.	1.1	100.1	1		1200	145	0.	35.3	104.0	1		2020	245	0.	35.3	104.0
1		0345	46	0.	1.1	100.1	1		1205	146	0.	35.3	104.0	1		2025	246	0.	35.3	104.0
1		0350	47	0.	1.2	100.1	1		1210	147	0.	35.3	104.0	1		2030	247	0.	35.3	104.0
1		0355	48	0.	1.3	100.1	1		1215	148	0.	35.3	104.0	1		2035	248	0.	35.3	104.0
1		0400	49	0.	1.5	100.1	1		1220	149	0.	35.3	104.0	1		2040	249	0.	35.3	104.0
1		0405	50	0.	1.6	100.2	1		1225	150	0.	35.3	104.0	1		2045	250	0.	35.3	104.0
1		0410	51	0.	1.8	100.2	1		1230	151	0.	35.3	104.0	1		2050	251	0.	35.3	104.0
1		0415	52	0.	2.1	100.2	1		1235	152	0.	35.3	104.0	1		2055	252	0.	35.3	104.0

1	0420	53	0.	2.4	100.2	*	1	1240	153	0.	35.3	104.0	*	1	2100	253	0.	35.3	104.0
1	0425	54	0.	2.7	100.3	*	1	1245	154	0.	35.3	104.0	*	1	2105	254	0.	35.3	104.0
1	0430	55	0.	3.2	100.3	*	1	1250	155	0.	35.3	104.0	*	1	2110	255	0.	35.3	104.0
1	0435	56	0.	3.8	100.4	*	1	1255	156	0.	35.3	104.0	*	1	2115	256	0.	35.3	104.0
1	0440	57	0.	4.5	100.4	*	1	1300	157	0.	35.3	104.0	*	1	2120	257	0.	35.3	104.0
1	0445	58	0.	5.4	100.5	*	1	1305	158	0.	35.3	104.0	*	1	2125	258	0.	35.3	104.0
1	0450	59	0.	6.4	100.6	*	1	1310	159	0.	35.3	104.0	*	1	2130	259	0.	35.3	104.0
1	0455	60	0.	7.6	100.8	*	1	1315	160	0.	35.3	104.0	*	1	2135	260	0.	35.3	104.0
1	0500	61	0.	8.9	100.9	*	1	1320	161	0.	35.3	104.0	*	1	2140	261	0.	35.3	104.0
1	0505	62	0.	10.3	101.0	*	1	1325	162	0.	35.3	104.0	*	1	2145	262	0.	35.3	104.0
1	0510	63	0.	11.8	101.2	*	1	1330	163	0.	35.3	104.0	*	1	2150	263	0.	35.3	104.0
1	0515	64	0.	13.3	101.3	*	1	1335	164	0.	35.3	104.0	*	1	2155	264	0.	35.3	104.0
1	0520	65	0.	14.8	101.5	*	1	1340	165	0.	35.3	104.0	*	1	2200	265	0.	35.3	104.0
1	0525	66	0.	16.2	101.6	*	1	1345	166	0.	35.3	104.0	*	1	2205	266	0.	35.3	104.0
1	0530	67	0.	17.6	101.8	*	1	1350	167	0.	35.3	104.0	*	1	2210	267	0.	35.3	104.0
1	0535	68	0.	19.0	101.9	*	1	1355	168	0.	35.3	104.0	*	1	2215	268	0.	35.3	104.0
1	0540	69	0.	20.3	102.0	*	1	1400	169	0.	35.3	104.0	*	1	2220	269	0.	35.3	104.0
1	0545	70	0.	21.5	102.1	*	1	1405	170	0.	35.3	104.0	*	1	2225	270	0.	35.3	104.0
1	0550	71	0.	22.6	102.3	*	1	1410	171	0.	35.3	104.0	*	1	2230	271	0.	35.3	104.0
1	0555	72	0.	23.6	102.4	*	1	1415	172	0.	35.3	104.0	*	1	2235	272	0.	35.3	104.0
1	0600	73	0.	24.6	102.5	*	1	1420	173	0.	35.3	104.0	*	1	2240	273	0.	35.3	104.0
1	0605	74	0.	25.6	102.6	*	1	1425	174	0.	35.3	104.0	*	1	2245	274	0.	35.3	104.0
1	0610	75	0.	26.4	102.6	*	1	1430	175	0.	35.3	104.0	*	1	2250	275	0.	35.3	104.0
1	0615	76	0.	27.2	102.7	*	1	1435	176	0.	35.3	104.0	*	1	2255	276	0.	35.3	104.0
1	0620	77	0.	28.0	102.8	*	1	1440	177	0.	35.3	104.0	*	1	2300	277	0.	35.3	104.0
1	0625	78	0.	28.7	102.9	*	1	1445	178	0.	35.3	104.0	*	1	2305	278	0.	35.3	104.0
1	0630	79	0.	29.4	102.9	*	1	1450	179	0.	35.3	104.0	*	1	2310	279	0.	35.3	104.0
1	0635	80	0.	30.0	103.0	*	1	1455	180	0.	35.3	104.0	*	1	2315	280	0.	35.3	104.0
1	0640	81	0.	30.6	103.1	*	1	1500	181	0.	35.3	104.0	*	1	2320	281	0.	35.3	104.0
1	0645	82	0.	31.1	103.2	*	1	1505	182	0.	35.3	104.0	*	1	2325	282	0.	35.3	104.0
1	0650	83	0.	31.6	103.3	*	1	1510	183	0.	35.3	104.0	*	1	2330	283	0.	35.3	104.0
1	0655	84	0.	32.1	103.4	*	1	1515	184	0.	35.3	104.0	*	1	2335	284	0.	35.3	104.0
1	0700	85	0.	32.6	103.5	*	1	1520	185	0.	35.3	104.0	*	1	2340	285	0.	35.3	104.0
1	0705	86	0.	33.0	103.6	*	1	1525	186	0.	35.3	104.0	*	1	2345	286	0.	35.3	104.0
1	0710	87	0.	33.4	103.6	*	1	1530	187	0.	35.3	104.0	*	1	2350	287	0.	35.3	104.0
1	0715	88	0.	33.7	103.7	*	1	1535	188	0.	35.3	104.0	*	1	2355	288	0.	35.3	104.0
1	0720	89	0.	34.1	103.8	*	1	1540	189	0.	35.3	104.0	*	2	0000	289	0.	35.3	104.0
1	0725	90	0.	34.4	103.8	*	1	1545	190	0.	35.3	104.0	*	2	0005	290	0.	35.3	104.0
1	0730	91	0.	34.7	103.9	*	1	1550	191	0.	35.3	104.0	*	2	0010	291	0.	35.3	104.0
1	0735	92	0.	35.0	103.9	*	1	1555	192	0.	35.3	104.0	*	2	0015	292	0.	35.3	104.0
1	0740	93	0.	35.2	104.0	*	1	1600	193	0.	35.3	104.0	*	2	0020	293	0.	35.3	104.0
1	0745	94	34.	35.3	104.0	*	1	1605	194	0.	35.3	104.0	*	2	0025	294	0.	35.3	104.0
1	0750	95	31.	35.3	104.0	*	1	1610	195	0.	35.3	104.0	*	2	0030	295	0.	35.3	104.0
1	0755	96	29.	35.3	104.0	*	1	1615	196	0.	35.3	104.0	*	2	0035	296	0.	35.3	104.0
1	0800	97	27.	35.3	104.0	*	1	1620	197	0.	35.3	104.0	*	2	0040	297	0.	35.3	104.0
1	0805	98	25.	35.3	104.0	*	1	1625	198	0.	35.3	104.0	*	2	0045	298	0.	35.3	104.0
1	0810	99	23.	35.3	104.0	*	1	1630	199	0.	35.3	104.0	*	2	0050	299	0.	35.3	104.0
1	0815	100	22.	35.3	104.0	*	1	1635	200	0.	35.3	104.0	*	2	0055	300	0.	35.3	104.0
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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)					
		(CFS)				
34.	7.75		6.	2.	2.	2.
		(INCHES)	.085	.085	.085	.085
		(AC-FT)	3.	3.	3.	3.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE

(AC-FT)	(HR)	6-HR	24-HR	72-HR	24.92-HR
35.	7.75	35.	28.	27.	27.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
(FEET)	(HR)				
104.01	7.75	104.00	103.20	103.08	103.08

CUMULATIVE AREA = .69 SQ MI

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          *            *
 93 KK    *    ABCD    *
          *            *
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COMBINE ROUTED SUB-BASIN D WITH MAINSTREAM

96 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE

95 HC HYDROGRAPH COMBINATION

ICOMP	2	NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION ABCD
SUM OF 2 HYDROGRAPHS

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	171.	1		1230	151	2.	1		1845	226	0.
1		0005	2	0.	1		0620	77	159.	1		1235	152	1.	1		1850	227	0.
1		0010	3	0.	1		0625	78	148.	1		1240	153	1.	1		1855	228	0.
1		0015	4	0.	1		0630	79	136.	1		1245	154	1.	1		1900	229	0.
1		0020	5	0.	1		0635	80	126.	1		1250	155	1.	1		1905	230	0.
1		0025	6	0.	1		0640	81	117.	1		1255	156	1.	1		1910	231	0.
1		0030	7	0.	1		0645	82	109.	1		1300	157	1.	1		1915	232	0.
1		0035	8	0.	1		0650	83	103.	1		1305	158	0.	1		1920	233	0.
1		0040	9	0.	1		0655	84	98.	1		1310	159	0.	1		1925	234	0.
1		0045	10	0.	1		0700	85	92.	1		1315	160	0.	1		1930	235	0.
1		0050	11	0.	1		0705	86	86.	1		1320	161	0.	1		1935	236	0.
1		0055	12	0.	1		0710	87	80.	1		1325	162	0.	1		1940	237	0.
1		0100	13	0.	1		0715	88	75.	1		1330	163	0.	1		1945	238	0.
1		0105	14	0.	1		0720	89	70.	1		1335	164	0.	1		1950	239	0.
1		0110	15	0.	1		0725	90	65.	1		1340	165	0.	1		1955	240	0.
1		0115	16	0.	1		0730	91	61.	1		1345	166	0.	1		2000	241	0.
1		0120	17	0.	1		0735	92	57.	1		1350	167	0.	1		2005	242	0.

1	0125	18	0.	*	1	0740	93	53.	*	1	1355	168	0.	*	1	2010	243	0.
1	0130	19	0.	*	1	0745	94	84.	*	1	1400	169	0.	*	1	2015	244	0.
1	0135	20	0.	*	1	0750	95	79.	*	1	1405	170	0.	*	1	2020	245	0.
1	0140	21	0.	*	1	0755	96	74.	*	1	1410	171	0.	*	1	2025	246	0.
1	0145	22	0.	*	1	0800	97	69.	*	1	1415	172	0.	*	1	2030	247	0.
1	0150	23	0.	*	1	0805	98	65.	*	1	1420	173	0.	*	1	2035	248	0.
1	0155	24	0.	*	1	0810	99	61.	*	1	1425	174	0.	*	1	2040	249	0.
1	0200	25	0.	*	1	0815	100	57.	*	1	1430	175	0.	*	1	2045	250	0.
1	0205	26	0.	*	1	0820	101	53.	*	1	1435	176	0.	*	1	2050	251	0.
1	0210	27	0.	*	1	0825	102	50.	*	1	1440	177	0.	*	1	2055	252	0.
1	0215	28	0.	*	1	0830	103	47.	*	1	1445	178	0.	*	1	2100	253	0.
1	0220	29	0.	*	1	0835	104	44.	*	1	1450	179	0.	*	1	2105	254	0.
1	0225	30	0.	*	1	0840	105	41.	*	1	1455	180	0.	*	1	2110	255	0.
1	0230	31	0.	*	1	0845	106	38.	*	1	1500	181	0.	*	1	2115	256	0.
1	0235	32	0.	*	1	0850	107	36.	*	1	1505	182	0.	*	1	2120	257	0.
1	0240	33	1.	*	1	0855	108	34.	*	1	1510	183	0.	*	1	2125	258	0.
1	0245	34	1.	*	1	0900	109	32.	*	1	1515	184	0.	*	1	2130	259	0.
1	0250	35	1.	*	1	0905	110	30.	*	1	1520	185	0.	*	1	2135	260	0.
1	0255	36	1.	*	1	0910	111	29.	*	1	1525	186	0.	*	1	2140	261	0.
1	0300	37	1.	*	1	0915	112	27.	*	1	1530	187	0.	*	1	2145	262	0.
1	0305	38	1.	*	1	0920	113	26.	*	1	1535	188	0.	*	1	2150	263	0.
1	0310	39	2.	*	1	0925	114	24.	*	1	1540	189	0.	*	1	2155	264	0.
1	0315	40	2.	*	1	0930	115	23.	*	1	1545	190	0.	*	1	2200	265	0.
1	0320	41	2.	*	1	0935	116	21.	*	1	1550	191	0.	*	1	2205	266	0.
1	0325	42	2.	*	1	0940	117	20.	*	1	1555	192	0.	*	1	2210	267	0.
1	0330	43	2.	*	1	0945	118	19.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	2.	*	1	0950	119	18.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	2.	*	1	0955	120	17.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	2.	*	1	1000	121	16.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	2.	*	1	1005	122	15.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	2.	*	1	1010	123	14.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	2.	*	1	1015	124	13.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	3.	*	1	1020	125	12.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	3.	*	1	1025	126	12.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	3.	*	1	1030	127	11.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	4.	*	1	1035	128	10.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	5.	*	1	1040	129	9.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	11.	*	1	1045	130	9.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	19.	*	1	1050	131	8.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	35.	*	1	1055	132	8.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	56.	*	1	1100	133	7.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	85.	*	1	1105	134	7.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	118.	*	1	1110	135	6.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	153.	*	1	1115	136	6.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	183.	*	1	1120	137	6.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	210.	*	1	1125	138	6.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	234.	*	1	1130	139	5.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	251.	*	1	1135	140	5.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	261.	*	1	1140	141	5.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	266.	*	1	1145	142	5.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	264.	*	1	1150	143	5.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	258.	*	1	1155	144	4.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	249.	*	1	1200	145	4.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	237.	*	1	1205	146	4.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	223.	*	1	1210	147	4.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	209.	*	1	1215	148	3.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	195.	*	1	1220	149	3.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	183.	*	1	1225	150	2.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
266.	5.50		93.	24.	23.	23.
		(INCHES)	.506	.521	.521	.521
		(AC-FT)	46.	48.	48.	48.

CUMULATIVE AREA = 1.71 SQ MI

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          **************
          *            *
 97 KK    *     RTEAB  *     CD2F
          *            *
          **************
                        ROUTE COMBINED HYDROGRAPH TO SUB BASIN F

103 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

             HYDROGRAPH ROUTING DATA

 99 RS          STORAGE ROUTING
                      NSTPS          1  NUMBER OF SUBREACHES
                       ITYP       FLOW  TYPE OF INITIAL CONDITION
                     RSVRIC        .00  INITIAL CONDITION
                          X        .00 WORKING R AND D COEFFICIENT

100 RC          NORMAL DEPTH CHANNEL
                        ANL       .025  LEFT OVERBANK N-VALUE
                       ANCH       .015  MAIN CHANNEL N-VALUE
                        ANR       .025  RIGHT OVERBANK N-VALUE
                      RLNTH       850.  REACH LENGTH
                        SEL      .0010  ENERGY SLOPE
                      ELMAX      103.0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                   CROSS-SECTION DATA
                        --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
102 RY        ELEVATION   102.00   101.00   100.00   102.00   101.00   101.88   101.00   103.00
101 RX        DISTANCE    100.00   150.00   152.00   156.00   158.00   202.00   246.00   250.00

                                                  ***

                                   COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

          STORAGE       .00      .00      .00      .01      .02      .02      .04      .06      .16      .34
          OUTFLOW       .00      .02      .14      .40      .86     1.56     2.54     2.59     6.76    16.55
        ELEVATION    100.00   100.16   100.32   100.47   100.63   100.79   100.95   101.11   101.26   101.42

          STORAGE       .59      .92     1.33     1.78     2.23     2.69     3.15     3.61     4.07     4.53
          OUTFLOW     33.68    59.77    97.01   153.53   223.75   304.17   394.21   493.38   601.28   717.59
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ELEVATION 101.58 101.74 101.89 102.05 102.21 102.37 102.53 102.68 102.84 103.00

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HYDROGRAPH AT STATION RTEAB

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DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	100.0	*	1		0820	101	59.	.9	101.7	*	1		1640	201	0.	.0	100.2
1		0005	2	0.	.0	100.0	*	1		0825	102	56.	.9	101.7	*	1		1645	202	0.	.0	100.2
1		0010	3	0.	.0	100.0	*	1		0830	103	53.	.8	101.7	*	1		1650	203	0.	.0	100.2
1		0015	4	0.	.0	100.0	*	1		0835	104	49.	.8	101.7	*	1		1655	204	0.	.0	100.1
1		0020	5	0.	.0	100.0	*	1		0840	105	46.	.8	101.7	*	1		1700	205	0.	.0	100.1
1		0025	6	0.	.0	100.0	*	1		0845	106	43.	.7	101.6	*	1		1705	206	0.	.0	100.1
1		0030	7	0.	.0	100.0	*	1		0850	107	41.	.7	101.6	*	1		1710	207	0.	.0	100.1
1		0035	8	0.	.0	100.0	*	1		0855	108	38.	.7	101.6	*	1		1715	208	0.	.0	100.1
1		0040	9	0.	.0	100.0	*	1		0900	109	36.	.6	101.6	*	1		1720	209	0.	.0	100.1
1		0045	10	0.	.0	100.0	*	1		0905	110	34.	.6	101.6	*	1		1725	210	0.	.0	100.1
1		0050	11	0.	.0	100.0	*	1		0910	111	32.	.6	101.6	*	1		1730	211	0.	.0	100.1
1		0055	12	0.	.0	100.0	*	1		0915	112	30.	.5	101.5	*	1		1735	212	0.	.0	100.1
1		0100	13	0.	.0	100.0	*	1		0920	113	29.	.5	101.5	*	1		1740	213	0.	.0	100.1
1		0105	14	0.	.0	100.0	*	1		0925	114	27.	.5	101.5	*	1		1745	214	0.	.0	100.1
1		0110	15	0.	.0	100.0	*	1		0930	115	26.	.5	101.5	*	1		1750	215	0.	.0	100.1
1		0115	16	0.	.0	100.0	*	1		0935	116	24.	.5	101.5	*	1		1755	216	0.	.0	100.1
1		0120	17	0.	.0	100.0	*	1		0940	117	23.	.4	101.5	*	1		1800	217	0.	.0	100.1
1		0125	18	0.	.0	100.0	*	1		0945	118	22.	.4	101.5	*	1		1805	218	0.	.0	100.1
1		0130	19	0.	.0	100.0	*	1		0950	119	21.	.4	101.5	*	1		1810	219	0.	.0	100.1
1		0135	20	0.	.0	100.0	*	1		0955	120	19.	.4	101.4	*	1		1815	220	0.	.0	100.1
1		0140	21	0.	.0	100.0	*	1		1000	121	18.	.4	101.4	*	1		1820	221	0.	.0	100.1
1		0145	22	0.	.0	100.0	*	1		1005	122	17.	.4	101.4	*	1		1825	222	0.	.0	100.1
1		0150	23	0.	.0	100.0	*	1		1010	123	16.	.3	101.4	*	1		1830	223	0.	.0	100.1
1		0155	24	0.	.0	100.0	*	1		1015	124	15.	.3	101.4	*	1		1835	224	0.	.0	100.1
1		0200	25	0.	.0	100.0	*	1		1020	125	14.	.3	101.4	*	1		1840	225	0.	.0	100.1
1		0205	26	0.	.0	100.0	*	1		1025	126	14.	.3	101.4	*	1		1845	226	0.	.0	100.0
1		0210	27	0.	.0	100.1	*	1		1030	127	13.	.3	101.4	*	1		1850	227	0.	.0	100.0
1		0215	28	0.	.0	100.1	*	1		1035	128	12.	.3	101.3	*	1		1855	228	0.	.0	100.0
1		0220	29	0.	.0	100.2	*	1		1040	129	11.	.2	101.3	*	1		1900	229	0.	.0	100.0
1		0225	30	0.	.0	100.2	*	1		1045	130	11.	.2	101.3	*	1		1905	230	0.	.0	100.0
1		0230	31	0.	.0	100.3	*	1		1050	131	10.	.2	101.3	*	1		1910	231	0.	.0	100.0
1		0235	32	0.	.0	100.4	*	1		1055	132	9.	.2	101.3	*	1		1915	232	0.	.0	100.0
1		0240	33	0.	.0	100.4	*	1		1100	133	9.	.2	101.3	*	1		1920	233	0.	.0	100.0
1		0245	34	0.	.0	100.5	*	1		1105	134	8.	.2	101.3	*	1		1925	234	0.	.0	100.0
1		0250	35	1.	.0	100.6	*	1		1110	135	8.	.2	101.3	*	1		1930	235	0.	.0	100.0
1		0255	36	1.	.0	100.6	*	1		1115	136	7.	.2	101.3	*	1		1935	236	0.	.0	100.0
1		0300	37	1.	.0	100.7	*	1		1120	137	7.	.2	101.3	*	1		1940	237	0.	.0	100.0
1		0305	38	1.	.0	100.7	*	1		1125	138	6.	.2	101.3	*	1		1945	238	0.	.0	100.0
1		0310	39	1.	.0	100.7	*	1		1130	139	6.	.2	101.2	*	1		1950	239	0.	.0	100.0
1		0315	40	1.	.0	100.8	*	1		1135	140	6.	.1	101.2	*	1		1955	240	0.	.0	100.0
1		0320	41	2.	.0	100.8	*	1		1140	141	6.	.1	101.2	*	1		2000	241	0.	.0	100.0
1		0325	42	2.	.0	100.8	*	1		1145	142	6.	.1	101.2	*	1		2005	242	0.	.0	100.0
1		0330	43	2.	.0	100.8	*	1		1150	143	5.	.1	101.2	*	1		2010	243	0.	.0	100.0
1		0335	44	2.	.0	100.8	*	1		1155	144	5.	.1	101.2	*	1		2015	244	0.	.0	100.0
1		0340	45	2.	.0	100.8	*	1		1200	145	5.	.1	101.2	*	1		2020	245	0.	.0	100.0
1		0345	46	2.	.0	100.8	*	1		1205	146	5.	.1	101.2	*	1		2025	246	0.	.0	100.0
1		0350	47	2.	.0	100.8	*	1		1210	147	4.	.1	101.2	*	1		2030	247	0.	.0	100.0
1		0355	48	2.	.0	100.9	*	1		1215	148	4.	.1	101.2	*	1		2035	248	0.	.0	100.0
1		0400	49	2.	.0	100.9	*	1		1220	149	4.	.1	101.2	*	1		2040	249	0.	.0	100.0

1	0405	50	2.	.0	100.9	*	1	1225	150	4.	.1	101.1	*	1	2045	250	0.	.0	100.0
1	0410	51	3.	.0	100.9	*	1	1230	151	3.	.1	101.1	*	1	2050	251	0.	.0	100.0
1	0415	52	3.	.0	101.0	*	1	1235	152	3.	.1	101.1	*	1	2055	252	0.	.0	100.0
1	0420	53	3.	.0	101.0	*	1	1240	153	3.	.1	101.1	*	1	2100	253	0.	.0	100.0
1	0425	54	3.	.1	101.1	*	1	1245	154	3.	.0	101.0	*	1	2105	254	0.	.0	100.0
1	0430	55	4.	.1	101.2	*	1	1250	155	2.	.0	100.9	*	1	2110	255	0.	.0	100.0
1	0435	56	7.	.2	101.3	*	1	1255	156	2.	.0	100.8	*	1	2115	256	0.	.0	100.0
1	0440	57	13.	.3	101.4	*	1	1300	157	1.	.0	100.7	*	1	2120	257	0.	.0	100.0
1	0445	58	25.	.5	101.5	*	1	1305	158	1.	.0	100.6	*	1	2125	258	0.	.0	100.0
1	0450	59	43.	.7	101.6	*	1	1310	159	1.	.0	100.6	*	1	2130	259	0.	.0	100.0
1	0455	60	69.	1.0	101.8	*	1	1315	160	1.	.0	100.5	*	1	2135	260	0.	.0	100.0
1	0500	61	102.	1.4	101.9	*	1	1320	161	0.	.0	100.5	*	1	2140	261	0.	.0	100.0
1	0505	62	142.	1.7	102.0	*	1	1325	162	0.	.0	100.5	*	1	2145	262	0.	.0	100.0
1	0510	63	178.	1.9	102.1	*	1	1330	163	0.	.0	100.4	*	1	2150	263	0.	.0	100.0
1	0515	64	208.	2.1	102.2	*	1	1335	164	0.	.0	100.4	*	1	2155	264	0.	.0	100.0
1	0520	65	232.	2.3	102.2	*	1	1340	165	0.	.0	100.4	*	1	2200	265	0.	.0	100.0
1	0525	66	250.	2.4	102.3	*	1	1345	166	0.	.0	100.4	*	1	2205	266	0.	.0	100.0
1	0530	67	260.	2.4	102.3	*	1	1350	167	0.	.0	100.4	*	1	2210	267	0.	.0	100.0
1	0535	68	264.	2.5	102.3	*	1	1355	168	0.	.0	100.3	*	1	2215	268	0.	.0	100.0
1	0540	69	262.	2.5	102.3	*	1	1400	169	0.	.0	100.3	*	1	2220	269	0.	.0	100.0
1	0545	70	256.	2.4	102.3	*	1	1405	170	0.	.0	100.3	*	1	2225	270	0.	.0	100.0
1	0550	71	246.	2.4	102.3	*	1	1410	171	0.	.0	100.3	*	1	2230	271	0.	.0	100.0
1	0555	72	234.	2.3	102.2	*	1	1415	172	0.	.0	100.3	*	1	2235	272	0.	.0	100.0
1	0600	73	221.	2.2	102.2	*	1	1420	173	0.	.0	100.3	*	1	2240	273	0.	.0	100.0
1	0605	74	208.	2.1	102.2	*	1	1425	174	0.	.0	100.3	*	1	2245	274	0.	.0	100.0
1	0610	75	195.	2.0	102.1	*	1	1430	175	0.	.0	100.3	*	1	2250	275	0.	.0	100.0
1	0615	76	183.	2.0	102.1	*	1	1435	176	0.	.0	100.3	*	1	2255	276	0.	.0	100.0
1	0620	77	171.	1.9	102.1	*	1	1440	177	0.	.0	100.2	*	1	2300	277	0.	.0	100.0
1	0625	78	159.	1.8	102.1	*	1	1445	178	0.	.0	100.2	*	1	2305	278	0.	.0	100.0
1	0630	79	148.	1.7	102.0	*	1	1450	179	0.	.0	100.2	*	1	2310	279	0.	.0	100.0
1	0635	80	138.	1.7	102.0	*	1	1455	180	0.	.0	100.2	*	1	2315	280	0.	.0	100.0
1	0640	81	128.	1.6	102.0	*	1	1500	181	0.	.0	100.2	*	1	2320	281	0.	.0	100.0
1	0645	82	119.	1.5	102.0	*	1	1505	182	0.	.0	100.2	*	1	2325	282	0.	.0	100.0
1	0650	83	111.	1.4	101.9	*	1	1510	183	0.	.0	100.2	*	1	2330	283	0.	.0	100.0
1	0655	84	105.	1.4	101.9	*	1	1515	184	0.	.0	100.2	*	1	2335	284	0.	.0	100.0
1	0700	85	99.	1.3	101.9	*	1	1520	185	0.	.0	100.2	*	1	2340	285	0.	.0	100.0
1	0705	86	94.	1.3	101.9	*	1	1525	186	0.	.0	100.2	*	1	2345	286	0.	.0	100.0
1	0710	87	89.	1.2	101.9	*	1	1530	187	0.	.0	100.2	*	1	2350	287	0.	.0	100.0
	0715	88	83.	1.2	101.8	*	1	1535	188	0.	.0	100.2	*	1	2355	288	0.	.0	100.0
	0720	89	78.	1.1	101.8	*	1	1540	189	0.	.0	100.2	*	2	0000	289	0.	.0	100.0
	0725	90	73.	1.1	101.8	*	1	1545	190	0.	.0	100.2	*	2	0005	290	0.	.0	100.0
	0730	91	68.	1.0	101.8	*	1	1550	191	0.	.0	100.2	*	2	0010	291	0.	.0	100.0
	0735	92	63.	1.0	101.8	*	1	1555	192	0.	.0	100.2	*	2	0015	292	0.	.0	100.0
	0740	93	59.	.9	101.7	*	1	1600	193	0.	.0	100.2	*	2	0020	293	0.	.0	100.0
	0745	94	64.	1.0	101.8	*	1	1605	194	0.	.0	100.2	*	2	0025	294	0.	.0	100.0
1	0750	95	72.	1.1	101.8	*	1	1610	195	0.	.0	100.2	*	2	0030	295	0.	.0	100.0
1	0755	96	74.	1.1	101.8	*	1	1615	196	0.	.0	100.2	*	2	0035	296	0.	.0	100.0
1	0800	97	73.	1.1	101.8	*	1	1620	197	0.	.0	100.2	*	2	0040	297	0.	.0	100.0
1	0805	98	70.	1.0	101.8	*	1	1625	198	0.	.0	100.2	*	2	0045	298	0.	.0	100.0
1	0810	99	67.	1.0	101.8	*	1	1630	199	0.	.0	100.2	*	2	0050	299	0.	.0	100.0
1	0815	100	63.	1.0	101.8	*	1	1635	200	0.	.0	100.2	*	2	0055	300	0.	.0	100.0
						*							*						

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
264.	5.58		93.	24.	23.	23.
		(INCHES)	.505	.521	.521	.521

```
                    (AC-FT)      46.        48.        48.        48.

PEAK STORAGE   TIME                        MAXIMUM AVERAGE STORAGE
                                   6-HR       24-HR      72-HR     24.92-HR
  (AC-FT)      (HR)
     2.        5.58                 1.         0.         0.         0.

PEAK STAGE     TIME                        MAXIMUM AVERAGE STAGE
                                   6-HR       24-HR      72-HR     24.92-HR
  (FEET)       (HR)
  102.29       5.58              101.79     100.69     100.67     100.67

                    CUMULATIVE AREA =    1.71 SQ MI


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          *            *
104 KK    *     E      *
          *            *
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                    SUB-BASIN E
                    6-HOUR RAINFALL, PATTERN NO. 2.10 WAS USED TO FIND TC & R FOR THIS BASIN
                    THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .971
                      L = 1.32  Kb = .045  Adj. Slope = 6.9

114 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

              SUBBASIN RUNOFF DATA

109 BA          SUBBASIN CHARACTERISTICS
                      TAREA        .57  SUBBASIN AREA

                PRECIPITATION DATA

 14 PB                STORM       1.94  BASIN TOTAL PRECIPITATION

 14 PI            INCREMENTAL PRECIPITATION PATTERN
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00       .00       .01       .01       .01       .01       .01       .01       .03
                      .03       .03       .06       .06       .06       .08       .08       .08       .05       .05
                      .05       .02       .02       .02       .01       .01       .01       .00       .00       .00
                      .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                      .00       .00

110 LG          GREEN AND AMPT LOSS RATE
                      STRTL        .30  STARTING LOSS
                        DTH        .20  MOISTURE DEFICIT
                       PSIF       6.40  WETTING FRONT SUCTION
                      XKSAT        .13  HYDRAULIC CONDUCTIVITY
                      RTIMP      20.00  PERCENT IMPERVIOUS AREA
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111 UC          CLARK UNITGRAPH
                        TC        1.38  TIME OF CONCENTRATION
                         R         .90  STORAGE COEFFICIENT

112 UA          ACCUMULATED-AREA VS. TIME,  11 ORDINATES
                      .0       5.0      16.0      30.0      65.0      77.0      84.0      90.0      94.0      97.0
                   100.0

                                                   ***

                                              UNIT HYDROGRAPH PARAMETERS
                                       CLARK   TC=  1.38 HR,       R=   .90 HR
                                      SNYDER   TP=   .73 HR,      CP=   .46

                                                UNIT HYDROGRAPH
                                           65 END-OF-PERIOD ORDINATES
            6.       20.       39.       65.       92.      143.      203.      230.      233.      231.
          226.      219.      210.      200.      190.      180.      170.      157.      143.      130.
          119.      108.       99.       90.       82.       75.       68.       62.       57.       52.
           47.       43.       39.       36.       33.       30.       27.       25.       22.       20.
           19.       17.       16.       14.       13.       12.       11.       10.        9.        8.
            7.        7.        6.        6.        5.        5.        4.        4.        4.        3.
            3.        3.        2.        2.        2.
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HYDROGRAPH AT STATION E

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
1		0000	1	.00	.00	.00	0.	*	1		1230	151	.00	.00	.00	0.
1		0005	2	.01	.01	.00	0.	*	1		1235	152	.00	.00	.00	0.
1		0010	3	.01	.01	.00	0.	*	1		1240	153	.00	.00	.00	0.
1		0015	4	.01	.01	.00	0.	*	1		1245	154	.00	.00	.00	0.
1		0020	5	.00	.00	.00	0.	*	1		1250	155	.00	.00	.00	0.
1		0025	6	.00	.00	.00	0.	*	1		1255	156	.00	.00	.00	0.
1		0030	7	.00	.00	.00	0.	*	1		1300	157	.00	.00	.00	0.
1		0035	8	.01	.00	.00	1.	*	1		1305	158	.00	.00	.00	0.
1		0040	9	.01	.00	.00	1.	*	1		1310	159	.00	.00	.00	0.
1		0045	10	.01	.00	.00	1.	*	1		1315	160	.00	.00	.00	0.
1		0050	11	.01	.01	.00	1.	*	1		1320	161	.00	.00	.00	0.
1		0055	12	.01	.01	.00	2.	*	1		1325	162	.00	.00	.00	0.
1		0100	13	.01	.01	.00	2.	*	1		1330	163	.00	.00	.00	0.
1		0105	14	.01	.00	.00	2.	*	1		1335	164	.00	.00	.00	0.
1		0110	15	.01	.00	.00	2.	*	1		1340	165	.00	.00	.00	0.
1		0115	16	.01	.00	.00	3.	*	1		1345	166	.00	.00	.00	0.
1		0120	17	.01	.00	.00	3.	*	1		1350	167	.00	.00	.00	0.
1		0125	18	.01	.00	.00	3.	*	1		1355	168	.00	.00	.00	0.
1		0130	19	.01	.00	.00	3.	*	1		1400	169	.00	.00	.00	0.
1		0135	20	.01	.00	.00	3.	*	1		1405	170	.00	.00	.00	0.
1		0140	21	.01	.00	.00	4.	*	1		1410	171	.00	.00	.00	0.
1		0145	22	.01	.00	.00	4.	*	1		1415	172	.00	.00	.00	0.
1		0150	23	.01	.00	.00	4.	*	1		1420	173	.00	.00	.00	0.
1		0155	24	.01	.00	.00	4.	*	1		1425	174	.00	.00	.00	0.
1		0200	25	.01	.00	.00	4.	*	1		1430	175	.00	.00	.00	0.
1		0205	26	.01	.00	.00	4.	*	1		1435	176	.00	.00	.00	0.
1		0210	27	.01	.00	.00	4.	*	1		1440	177	.00	.00	.00	0.

1	0215	28	.01	.00	.00	4.	*	1	1445	178	.00	.00	.00	0.
1	0220	29	.01	.01	.00	4.	*	1	1450	179	.00	.00	.00	0.
1	0225	30	.01	.01	.00	5.	*	1	1455	180	.00	.00	.00	0.
1	0230	31	.01	.01	.00	5.	*	1	1500	181	.00	.00	.00	0.
1	0235	32	.01	.01	.00	5.	*	1	1505	182	.00	.00	.00	0.
1	0240	33	.01	.01	.00	5.	*	1	1510	183	.00	.00	.00	0.
1	0245	34	.01	.01	.00	5.	*	1	1515	184	.00	.00	.00	0.
1	0250	35	.01	.01	.00	5.	*	1	1520	185	.00	.00	.00	0.
1	0255	36	.01	.01	.00	5.	*	1	1525	186	.00	.00	.00	0.
1	0300	37	.01	.01	.00	5.	*	1	1530	187	.00	.00	.00	0.
1	0305	38	.03	.02	.01	6.	*	1	1535	188	.00	.00	.00	0.
1	0310	39	.03	.02	.01	6.	*	1	1540	189	.00	.00	.00	0.
1	0315	40	.03	.02	.01	6.	*	1	1545	190	.00	.00	.00	0.
1	0320	41	.06	.05	.01	7.	*	1	1550	191	.00	.00	.00	0.
1	0325	42	.06	.05	.01	8.	*	1	1555	192	.00	.00	.00	0.
1	0330	43	.06	.05	.01	9.	*	1	1600	193	.00	.00	.00	0.
1	0335	44	.13	.06	.07	10.	*	1	1605	194	.00	.00	.00	0.
1	0340	45	.13	.05	.08	13.	*	1	1610	195	.00	.00	.00	0.
1	0345	46	.13	.04	.09	17.	*	1	1615	196	.00	.00	.00	0.
1	0350	47	.15	.04	.12	24.	*	1	1620	197	.00	.00	.00	0.
1	0355	48	.15	.03	.12	33.	*	1	1625	198	.00	.00	.00	0.
1	0400	49	.15	.03	.12	46.	*	1	1630	199	.00	.00	.00	0.
1	0405	50	.09	.03	.06	64.	*	1	1635	200	.00	.00	.00	0.
1	0410	51	.09	.03	.06	84.	*	1	1640	201	.00	.00	.00	0.
1	0415	52	.09	.03	.06	106.	*	1	1645	202	.00	.00	.00	0.
1	0420	53	.04	.03	.01	128.	*	1	1650	203	.00	.00	.00	0.
1	0425	54	.04	.03	.02	148.	*	1	1655	204	.00	.00	.00	0.
1	0430	55	.04	.02	.02	164.	*	1	1700	205	.00	.00	.00	0.
1	0435	56	.03	.02	.01	175.	*	1	1705	206	.00	.00	.00	0.
1	0440	57	.03	.02	.01	181.	*	1	1710	207	.00	.00	.00	0.
1	0445	58	.03	.02	.01	184.	*	1	1715	208	.00	.00	.00	0.
1	0450	59	.01	.01	.00	183.	*	1	1720	209	.00	.00	.00	0.
1	0455	60	.01	.01	.00	179.	*	1	1725	210	.00	.00	.00	0.
1	0500	61	.01	.01	.00	173.	*	1	1730	211	.00	.00	.00	0.
1	0505	62	.01	.01	.00	166.	*	1	1735	212	.00	.00	.00	0.
1	0510	63	.01	.01	.00	158.	*	1	1740	213	.00	.00	.00	0.
1	0515	64	.01	.01	.00	149.	*	1	1745	214	.00	.00	.00	0.
1	0520	65	.01	.01	.00	140.	*	1	1750	215	.00	.00	.00	0.
1	0525	66	.01	.01	.00	130.	*	1	1755	216	.00	.00	.00	0.
1	0530	67	.01	.01	.00	121.	*	1	1800	217	.00	.00	.00	0.
1	0535	68	.01	.01	.00	112.	*	1	1805	218	.00	.00	.00	0.
1	0540	69	.01	.01	.00	103.	*	1	1810	219	.00	.00	.00	0.
1	0545	70	.01	.01	.00	95.	*	1	1815	220	.00	.00	.00	0.
1	0550	71	.01	.01	.00	87.	*	1	1820	221	.00	.00	.00	0.
1	0555	72	.01	.01	.00	80.	*	1	1825	222	.00	.00	.00	0.
1	0600	73	.01	.01	.00	74.	*	1	1830	223	.00	.00	.00	0.
1	0605	74	.00	.00	.00	68.	*	1	1835	224	.00	.00	.00	0.
1	0610	75	.00	.00	.00	63.	*	1	1840	225	.00	.00	.00	0.
1	0615	76	.00	.00	.00	58.	*	1	1845	226	.00	.00	.00	0.
1	0620	77	.00	.00	.00	53.	*	1	1850	227	.00	.00	.00	0.
1	0625	78	.00	.00	.00	49.	*	1	1855	228	.00	.00	.00	0.
1	0630	79	.00	.00	.00	45.	*	1	1900	229	.00	.00	.00	0.
1	0635	80	.00	.00	.00	41.	*	1	1905	230	.00	.00	.00	0.
1	0640	81	.00	.00	.00	38.	*	1	1910	231	.00	.00	.00	0.
1	0645	82	.00	.00	.00	35.	*	1	1915	232	.00	.00	.00	0.
1	0650	83	.00	.00	.00	32.	*	1	1920	233	.00	.00	.00	0.
1	0655	84	.00	.00	.00	29.	*	1	1925	234	.00	.00	.00	0.
1	0700	85	.00	.00	.00	26.	*	1	1930	235	.00	.00	.00	0.
1	0705	86	.00	.00	.00	24.	*	1	1935	236	.00	.00	.00	0.
1	0710	87	.00	.00	.00	22.	*	1	1940	237	.00	.00	.00	0.

1	0715	88	.00	.00	.00	20.	*	1	1945	238	.00	.00	.00	0.
1	0720	89	.00	.00	.00	18.	*	1	1950	239	.00	.00	.00	0.
1	0725	90	.00	.00	.00	17.	*	1	1955	240	.00	.00	.00	0.
1	0730	91	.00	.00	.00	15.	*	1	2000	241	.00	.00	.00	0.
1	0735	92	.00	.00	.00	14.	*	1	2005	242	.00	.00	.00	0.
1	0740	93	.00	.00	.00	13.	*	1	2010	243	.00	.00	.00	0.
1	0745	94	.00	.00	.00	12.	*	1	2015	244	.00	.00	.00	0.
1	0750	95	.00	.00	.00	11.	*	1	2020	245	.00	.00	.00	0.
1	0755	96	.00	.00	.00	10.	*	1	2025	246	.00	.00	.00	0.
1	0800	97	.00	.00	.00	9.	*	1	2030	247	.00	.00	.00	0.
1	0805	98	.00	.00	.00	8.	*	1	2035	248	.00	.00	.00	0.
1	0810	99	.00	.00	.00	7.	*	1	2040	249	.00	.00	.00	0.
1	0815	100	.00	.00	.00	7.	*	1	2045	250	.00	.00	.00	0.
1	0820	101	.00	.00	.00	6.	*	1	2050	251	.00	.00	.00	0.
1	0825	102	.00	.00	.00	5.	*	1	2055	252	.00	.00	.00	0.
1	0830	103	.00	.00	.00	5.	*	1	2100	253	.00	.00	.00	0.
1	0835	104	.00	.00	.00	5.	*	1	2105	254	.00	.00	.00	0.
1	0840	105	.00	.00	.00	4.	*	1	2110	255	.00	.00	.00	0.
1	0845	106	.00	.00	.00	4.	*	1	2115	256	.00	.00	.00	0.
1	0850	107	.00	.00	.00	3.	*	1	2120	257	.00	.00	.00	0.
1	0855	108	.00	.00	.00	3.	*	1	2125	258	.00	.00	.00	0.
1	0900	109	.00	.00	.00	3.	*	1	2130	259	.00	.00	.00	0.
1	0905	110	.00	.00	.00	2.	*	1	2135	260	.00	.00	.00	0.
1	0910	111	.00	.00	.00	2.	*	1	2140	261	.00	.00	.00	0.
1	0915	112	.00	.00	.00	2.	*	1	2145	262	.00	.00	.00	0.
1	0920	113	.00	.00	.00	1.	*	1	2150	263	.00	.00	.00	0.
1	0925	114	.00	.00	.00	1.	*	1	2155	264	.00	.00	.00	0.
1	0930	115	.00	.00	.00	1.	*	1	2200	265	.00	.00	.00	0.
1	0935	116	.00	.00	.00	0.	*	1	2205	266	.00	.00	.00	0.
1	0940	117	.00	.00	.00	0.	*	1	2210	267	.00	.00	.00	0.
1	0945	118	.00	.00	.00	0.	*	1	2215	268	.00	.00	.00	0.
1	0950	119	.00	.00	.00	0.	*	1	2220	269	.00	.00	.00	0.
1	0955	120	.00	.00	.00	0.	*	1	2225	270	.00	.00	.00	0.
1	1000	121	.00	.00	.00	0.	*	1	2230	271	.00	.00	.00	0.
1	1005	122	.00	.00	.00	0.	*	1	2235	272	.00	.00	.00	0.
1	1010	123	.00	.00	.00	0.	*	1	2240	273	.00	.00	.00	0.
1	1015	124	.00	.00	.00	0.	*	1	2245	274	.00	.00	.00	0.
1	1020	125	.00	.00	.00	0.	*	1	2250	275	.00	.00	.00	0.
1	1025	126	.00	.00	.00	0.	*	1	2255	276	.00	.00	.00	0.
1	1030	127	.00	.00	.00	0.	*	1	2300	277	.00	.00	.00	0.
1	1035	128	.00	.00	.00	0.	*	1	2305	278	.00	.00	.00	0.
1	1040	129	.00	.00	.00	0.	*	1	2310	279	.00	.00	.00	0.
1	1045	130	.00	.00	.00	0.	*	1	2315	280	.00	.00	.00	0.
1	1050	131	.00	.00	.00	0.	*	1	2320	281	.00	.00	.00	0.
1	1055	132	.00	.00	.00	0.	*	1	2325	282	.00	.00	.00	0.
1	1100	133	.00	.00	.00	0.	*	1	2330	283	.00	.00	.00	0.
1	1105	134	.00	.00	.00	0.	*	1	2335	284	.00	.00	.00	0.
1	1110	135	.00	.00	.00	0.	*	1	2340	285	.00	.00	.00	0.
1	1115	136	.00	.00	.00	0.	*	1	2345	286	.00	.00	.00	0.
1	1120	137	.00	.00	.00	0.	*	1	2350	287	.00	.00	.00	0.
1	1125	138	.00	.00	.00	0.	*	1	2355	288	.00	.00	.00	0.
1	1130	139	.00	.00	.00	0.	*	2	0000	289	.00	.00	.00	0.
1	1135	140	.00	.00	.00	0.	*	2	0005	290	.00	.00	.00	0.
1	1140	141	.00	.00	.00	0.	*	2	0010	291	.00	.00	.00	0.
1	1145	142	.00	.00	.00	0.	*	2	0015	292	.00	.00	.00	0.
1	1150	143	.00	.00	.00	0.	*	2	0020	293	.00	.00	.00	0.
1	1155	144	.00	.00	.00	0.	*	2	0025	294	.00	.00	.00	0.
1	1200	145	.00	.00	.00	0.	*	2	0030	295	.00	.00	.00	0.
1	1205	146	.00	.00	.00	0.	*	2	0035	296	.00	.00	.00	0.
1	1210	147	.00	.00	.00	0.	*	2	0040	297	.00	.00	.00	0.

1	1215	148	.00	.00	.00	0.	*	2	0045	298	.00	.00	.00	0.
1	1220	149	.00	.00	.00	0.	*	2	0050	299	.00	.00	.00	0.
1	1225	150	.00	.00	.00	0.	*	2	0055	300	.00	.00	.00	0.
							*							

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TOTAL RAINFALL = 1.94, TOTAL LOSS = .97, TOTAL EXCESS = .97

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
184.	4.75		58.	15.	14.	14.
		(INCHES)	.938	.962	.962	.962
		(AC-FT)	29.	29.	29.	29.

CUMULATIVE AREA = .57 SQ MI

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          *            *
115 KK    *     RTEE   *
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ROUTE SUB BASIN E THROUGH RESERVOIR TO REMOVE DEVELOPED AREA STORAGE

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122 KO        OUTPUT CONTROL VARIABLES
                   IPRNT          2  PRINT CONTROL
                   IPLOT          0  PLOT CONTROL
                   QSCAL         0.  HYDROGRAPH PLOT SCALE

            HYDROGRAPH ROUTING DATA

117 RS        STORAGE ROUTING
                   NSTPS          1  NUMBER OF SUBREACHES
                    ITYP       STOR  TYPE OF INITIAL CONDITION
                  RSVRIC        .00  INITIAL CONDITION
                       X        .00 WORKING R AND D COEFFICIENT

118 SV          STORAGE         .0      10.0      20.0      30.0      31.5      35.7      40.0

119 SE        ELEVATION      100.00    101.00    102.00    103.00    104.00    104.50    105.00

120 SQ        DISCHARGE         0.        0.        0.        0.        0.     1500.     3000.

121 SE        ELEVATION      100.00    101.00    102.00    103.00    104.00    104.50    105.00
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COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	10.00	20.00	30.00	31.47	35.74	40.00
OUTFLOW	.00	.00	.00	.00	.00	1500.00	3000.00
ELEVATION	100.00	101.00	102.00	103.00	104.00	104.50	105.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 0. TO 3000.
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

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HYDROGRAPH AT STATION RTEE

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DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	100.0	1		0820	101	0.	29.0	102.9	1		1640	201	0.	29.4	102.9
1		0005	2	0.	.0	100.0	1		0825	102	0.	29.1	102.9	1		1645	202	0.	29.4	102.9
1		0010	3	0.	.0	100.0	1		0830	103	0.	29.1	102.9	1		1650	203	0.	29.4	102.9
1		0015	4	0.	.0	100.0	1		0835	104	0.	29.1	102.9	1		1655	204	0.	29.4	102.9
1		0020	5	0.	.0	100.0	1		0840	105	0.	29.2	102.9	1		1700	205	0.	29.4	102.9
1		0025	6	0.	.0	100.0	1		0845	106	0.	29.2	102.9	1		1705	206	0.	29.4	102.9
1		0030	7	0.	.0	100.0	1		0850	107	0.	29.2	102.9	1		1710	207	0.	29.4	102.9
1		0035	8	0.	.0	100.0	1		0855	108	0.	29.3	102.9	1		1715	208	0.	29.4	102.9
1		0040	9	0.	.0	100.0	1		0900	109	0.	29.3	102.9	1		1720	209	0.	29.4	102.9
1		0045	10	0.	.0	100.0	1		0905	110	0.	29.3	102.9	1		1725	210	0.	29.4	102.9
1		0050	11	0.	.0	100.0	1		0910	111	0.	29.3	102.9	1		1730	211	0.	29.4	102.9
1		0055	12	0.	.0	100.0	1		0915	112	0.	29.3	102.9	1		1735	212	0.	29.4	102.9
1		0100	13	0.	.1	100.0	1		0920	113	0.	29.3	102.9	1		1740	213	0.	29.4	102.9
1		0105	14	0.	.1	100.0	1		0925	114	0.	29.3	102.9	1		1745	214	0.	29.4	102.9
1		0110	15	0.	.1	100.0	1		0930	115	0.	29.3	102.9	1		1750	215	0.	29.4	102.9
1		0115	16	0.	.1	100.0	1		0935	116	0.	29.3	102.9	1		1755	216	0.	29.4	102.9
1		0120	17	0.	.1	100.0	1		0940	117	0.	29.3	102.9	1		1800	217	0.	29.4	102.9
1		0125	18	0.	.1	100.0	1		0945	118	0.	29.3	102.9	1		1805	218	0.	29.4	102.9
1		0130	19	0.	.2	100.0	1		0950	119	0.	29.3	102.9	1		1810	219	0.	29.4	102.9
1		0135	20	0.	.2	100.0	1		0955	120	0.	29.3	102.9	1		1815	220	0.	29.4	102.9
1		0140	21	0.	.2	100.0	1		1000	121	0.	29.3	102.9	1		1820	221	0.	29.4	102.9
1		0145	22	0.	.2	100.0	1		1005	122	0.	29.3	102.9	1		1825	222	0.	29.4	102.9
1		0150	23	0.	.3	100.0	1		1010	123	0.	29.4	102.9	1		1830	223	0.	29.4	102.9
1		0155	24	0.	.3	100.0	1		1015	124	0.	29.4	102.9	1		1835	224	0.	29.4	102.9
1		0200	25	0.	.3	100.0	1		1020	125	0.	29.4	102.9	1		1840	225	0.	29.4	102.9
1		0205	26	0.	.3	100.0	1		1025	126	0.	29.4	102.9	1		1845	226	0.	29.4	102.9
1		0210	27	0.	.4	100.0	1		1030	127	0.	29.4	102.9	1		1850	227	0.	29.4	102.9
1		0215	28	0.	.4	100.0	1		1035	128	0.	29.4	102.9	1		1855	228	0.	29.4	102.9
		0220	29	0.	.4	100.0	1		1040	129	0.	29.4	102.9	1		1900	229	0.	29.4	102.9
		0225	30	0.	.5	100.0	1		1045	130	0.	29.4	102.9	1		1905	230	0.	29.4	102.9
		0230	31	0.	.5	100.0	1		1050	131	0.	29.4	102.9	1		1910	231	0.	29.4	102.9
		0235	32	0.	.5	100.1	1		1055	132	0.	29.4	102.9	1		1915	232	0.	29.4	102.9
		0240	33	0.	.6	100.1	1		1100	133	0.	29.4	102.9	1		1920	233	0.	29.4	102.9
1		0245	34	0.	.6	100.1	1		1105	134	0.	29.4	102.9	1		1925	234	0.	29.4	102.9
1		0250	35	0.	.6	100.1	1		1110	135	0.	29.4	102.9	1		1930	235	0.	29.4	102.9
1		0255	36	0.	.7	100.1	1		1115	136	0.	29.4	102.9	1		1935	236	0.	29.4	102.9
1		0300	37	0.	.7	100.1	1		1120	137	0.	29.4	102.9	1		1940	237	0.	29.4	102.9
1		0305	38	0.	.7	100.1	1		1125	138	0.	29.4	102.9	1		1945	238	0.	29.4	102.9
1		0310	39	0.	.8	100.1	1		1130	139	0.	29.4	102.9	1		1950	239	0.	29.4	102.9
1		0315	40	0.	.8	100.1	1		1135	140	0.	29.4	102.9	1		1955	240	0.	29.4	102.9
1		0320	41	0.	.9	100.1	1		1140	141	0.	29.4	102.9	1		2000	241	0.	29.4	102.9
1		0325	42	0.	.9	100.1	1		1145	142	0.	29.4	102.9	1		2005	242	0.	29.4	102.9
1		0330	43	0.	1.0	100.1	1		1150	143	0.	29.4	102.9	1		2010	243	0.	29.4	102.9
1		0335	44	0.	1.0	100.1	1		1155	144	0.	29.4	102.9	1		2015	244	0.	29.4	102.9
1		0340	45	0.	1.1	100.1	1		1200	145	0.	29.4	102.9	1		2020	245	0.	29.4	102.9
1		0345	46	0.	1.2	100.1	1		1205	146	0.	29.4	102.9	1		2025	246	0.	29.4	102.9
1		0350	47	0.	1.4	100.1	1		1210	147	0.	29.4	102.9	1		2030	247	0.	29.4	102.9
1		0355	48	0.	1.6	100.2	1		1215	148	0.	29.4	102.9	1		2035	248	0.	29.4	102.9

1	0400	49	0.	1.8	100.2	*	1	1220	149	0.	29.4	102.9	*	1	2040	249	0.	29.4	102.9
1	0405	50	0.	2.2	100.2	*	1	1225	150	0.	29.4	102.9	*	1	2045	250	0.	29.4	102.9
1	0410	51	0.	2.7	100.3	*	1	1230	151	0.	29.4	102.9	*	1	2050	251	0.	29.4	102.9
1	0415	52	0.	3.4	100.3	*	1	1235	152	0.	29.4	102.9	*	1	2055	252	0.	29.4	102.9
1	0420	53	0.	4.2	100.4	*	1	1240	153	0.	29.4	102.9	*	1	2100	253	0.	29.4	102.9
1	0425	54	0.	5.1	100.5	*	1	1245	154	0.	29.4	102.9	*	1	2105	254	0.	29.4	102.9
1	0430	55	0.	6.2	100.6	*	1	1250	155	0.	29.4	102.9	*	1	2110	255	0.	29.4	102.9
1	0435	56	0.	7.4	100.7	*	1	1255	156	0.	29.4	102.9	*	1	2115	256	0.	29.4	102.9
1	0440	57	0.	8.6	100.9	*	1	1300	157	0.	29.4	102.9	*	1	2120	257	0.	29.4	102.9
1	0445	58	0.	9.9	101.0	*	1	1305	158	0.	29.4	102.9	*	1	2125	258	0.	29.4	102.9
1	0450	59	0.	11.1	101.1	*	1	1310	159	0.	29.4	102.9	*	1	2130	259	0.	29.4	102.9
1	0455	60	0.	12.4	101.2	*	1	1315	160	0.	29.4	102.9	*	1	2135	260	0.	29.4	102.9
1	0500	61	0.	13.6	101.4	*	1	1320	161	0.	29.4	102.9	*	1	2140	261	0.	29.4	102.9
1	0505	62	0.	14.7	101.5	*	1	1325	162	0.	29.4	102.9	*	1	2145	262	0.	29.4	102.9
1	0510	63	0.	15.9	101.6	*	1	1330	163	0.	29.4	102.9	*	1	2150	263	0.	29.4	102.9
1	0515	64	0.	16.9	101.7	*	1	1335	164	0.	29.4	102.9	*	1	2155	264	0.	29.4	102.9
1	0520	65	0.	17.9	101.8	*	1	1340	165	0.	29.4	102.9	*	1	2200	265	0.	29.4	102.9
1	0525	66	0.	18.8	101.9	*	1	1345	166	0.	29.4	102.9	*	1	2205	266	0.	29.4	102.9
1	0530	67	0.	19.7	102.0	*	1	1350	167	0.	29.4	102.9	*	1	2210	267	0.	29.4	102.9
1	0535	68	0.	20.5	102.1	*	1	1355	168	0.	29.4	102.9	*	1	2215	268	0.	29.4	102.9
1	0540	69	0.	21.2	102.1	*	1	1400	169	0.	29.4	102.9	*	1	2220	269	0.	29.4	102.9
1	0545	70	0.	21.9	102.2	*	1	1405	170	0.	29.4	102.9	*	1	2225	270	0.	29.4	102.9
1	0550	71	0.	22.6	102.3	*	1	1410	171	0.	29.4	102.9	*	1	2230	271	0.	29.4	102.9
1	0555	72	0.	23.1	102.3	*	1	1415	172	0.	29.4	102.9	*	1	2235	272	0.	29.4	102.9
1	0600	73	0.	23.7	102.4	*	1	1420	173	0.	29.4	102.9	*	1	2240	273	0.	29.4	102.9
1	0605	74	0.	24.2	102.4	*	1	1425	174	0.	29.4	102.9	*	1	2245	274	0.	29.4	102.9
1	0610	75	0.	24.6	102.5	*	1	1430	175	0.	29.4	102.9	*	1	2250	275	0.	29.4	102.9
1	0615	76	0.	25.0	102.5	*	1	1435	176	0.	29.4	102.9	*	1	2255	276	0.	29.4	102.9
1	0620	77	0.	25.4	102.5	*	1	1440	177	0.	29.4	102.9	*	1	2300	277	0.	29.4	102.9
1	0625	78	0.	25.7	102.6	*	1	1445	178	0.	29.4	102.9	*	1	2305	278	0.	29.4	102.9
1	0630	79	0.	26.1	102.6	*	1	1450	179	0.	29.4	102.9	*	1	2310	279	0.	29.4	102.9
1	0635	80	0.	26.4	102.6	*	1	1455	180	0.	29.4	102.9	*	1	2315	280	0.	29.4	102.9
1	0640	81	0.	26.6	102.7	*	1	1500	181	0.	29.4	102.9	*	1	2320	281	0.	29.4	102.9
1	0645	82	0.	26.9	102.7	*	1	1505	182	0.	29.4	102.9	*	1	2325	282	0.	29.4	102.9
1	0650	83	0.	27.1	102.7	*	1	1510	183	0.	29.4	102.9	*	1	2330	283	0.	29.4	102.9
1	0655	84	0.	27.3	102.7	*	1	1515	184	0.	29.4	102.9	*	1	2335	284	0.	29.4	102.9
1	0700	85	0.	27.5	102.8	*	1	1520	185	0.	29.4	102.9	*	1	2340	285	0.	29.4	102.9
1	0705	86	0.	27.7	102.8	*	1	1525	186	0.	29.4	102.9	*	1	2345	286	0.	29.4	102.9
1	0710	87	0.	27.8	102.8	*	1	1530	187	0.	29.4	102.9	*	1	2350	287	0.	29.4	102.9
1	0715	88	0.	28.0	102.8	*	1	1535	188	0.	29.4	102.9	*	1	2355	288	0.	29.4	102.9
1	0720	89	0.	28.1	102.8	*	1	1540	189	0.	29.4	102.9	*	2	0000	289	0.	29.4	102.9
1	0725	90	0.	28.2	102.8	*	1	1545	190	0.	29.4	102.9	*	2	0005	290	0.	29.4	102.9
1	0730	91	0.	28.4	102.8	*	1	1550	191	0.	29.4	102.9	*	2	0010	291	0.	29.4	102.9
1	0735	92	0.	28.5	102.8	*	1	1555	192	0.	29.4	102.9	*	2	0015	292	0.	29.4	102.9
1	0740	93	0.	28.5	102.9	*	1	1600	193	0.	29.4	102.9	*	2	0020	293	0.	29.4	102.9
1	0745	94	0.	28.6	102.9	*	1	1605	194	0.	29.4	102.9	*	2	0025	294	0.	29.4	102.9
1	0750	95	0.	28.7	102.9	*	1	1610	195	0.	29.4	102.9	*	2	0030	295	0.	29.4	102.9
1	0755	96	0.	28.8	102.9	*	1	1615	196	0.	29.4	102.9	*	2	0035	296	0.	29.4	102.9
1	0800	97	0.	28.8	102.9	*	1	1620	197	0.	29.4	102.9	*	2	0040	297	0.	29.4	102.9
1	0805	98	0.	28.9	102.9	*	1	1625	198	0.	29.4	102.9	*	2	0045	298	0.	29.4	102.9
1	0810	99	0.	28.9	102.9	*	1	1630	199	0.	29.4	102.9	*	2	0050	299	0.	29.4	102.9
1	0815	100	0.	29.0	102.9	*	1	1635	200	0.	29.4	102.9	*	2	0055	300	0.	29.4	102.9
						*							*						

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PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW (CFS) 6-HR	24-HR	72-HR	24.92-HR
0.	.08	0.	0.	0.	0.

(INCHES)	.000	.000	.000	.000
(AC-FT)	0.	0.	0.	0.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
29.	10.92	29.	24.	23.	23.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
102.94	11.25	102.94	102.41	102.32	102.32

CUMULATIVE AREA = .57 SQ MI

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              *            *
 123 KK       *    REME    *
              *            *
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DIVERT FLOW TO AGUA FRIA RIVER
FOR MODELING PURPOSES WE NEED DIVERSION FLOW AT THOMAS RD
AND 115TH (SOUTH) TO ACT AS MAINSTREAM.

130 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE

DT DIVERSION

	ISTAD	DVRTE	DIVERSION HYDROGRAPH IDENTIFICATION								
DI	INFLOW	.00	11.59	29.74	66.65	130.38	217.20	266.94	320.62	378.13
DQ	.DIVERTED FLOW	.00	11.59	25.84	46.59	85.38	139.94	171.07	204.60	240.47

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DIVERSION HYDROGRAPH DVRTE

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0615	76	0.	*	1		1230	151	0.	*	1		1845	226	0.
1		0005	2	0.	*	1		0620	77	0.	*	1		1235	152	0.	*	1		1850	227	0.
1		0010	3	0.	*	1		0625	78	0.	*	1		1240	153	0.	*	1		1855	228	0.
1		0015	4	0.	*	1		0630	79	0.	*	1		1245	154	0.	*	1		1900	229	0.
1		0020	5	0.	*	1		0635	80	0.	*	1		1250	155	0.	*	1		1905	230	0.
1		0025	6	0.	*	1		0640	81	0.	*	1		1255	156	0.	*	1		1910	231	0.
1		0030	7	0.	*	1		0645	82	0.	*	1		1300	157	0.	*	1		1915	232	0.
1		0035	8	0.	*	1		0650	83	0.	*	1		1305	158	0.	*	1		1920	233	0.

1	0040	9	0.	*	1	0655	84	0.	*	1	1310	159	0.	*	1	1925	234	0.
1	0045	10	0.	*	1	0700	85	0.	*	1	1315	160	0.	*	1	1930	235	0.
1	0050	11	0.	*	1	0705	86	0.	*	1	1320	161	0.	*	1	1935	236	0.
1	0055	12	0.	*	1	0710	87	0.	*	1	1325	162	0.	*	1	1940	237	0.
1	0100	13	0.	*	1	0715	88	0.	*	1	1330	163	0.	*	1	1945	238	0.
1	0105	14	0.	*	1	0720	89	0.	*	1	1335	164	0.	*	1	1950	239	0.
1	0110	15	0.	*	1	0725	90	0.	*	1	1340	165	0.	*	1	1955	240	0.
1	0115	16	0.	*	1	0730	91	0.	*	1	1345	166	0.	*	1	2000	241	0.
1	0120	17	0.	*	1	0735	92	0.	*	1	1350	167	0.	*	1	2005	242	0.
1	0125	18	0.	*	1	0740	93	0.	*	1	1355	168	0.	*	1	2010	243	0.
1	0130	19	0.	*	1	0745	94	0.	*	1	1400	169	0.	*	1	2015	244	0.
1	0135	20	0.	*	1	0750	95	0.	*	1	1405	170	0.	*	1	2020	245	0.
1	0140	21	0.	*	1	0755	96	0.	*	1	1410	171	0.	*	1	2025	246	0.
1	0145	22	0.	*	1	0800	97	0.	*	1	1415	172	0.	*	1	2030	247	0.
1	0150	23	0.	*	1	0805	98	0.	*	1	1420	173	0.	*	1	2035	248	0.
1	0155	24	0.	*	1	0810	99	0.	*	1	1425	174	0.	*	1	2040	249	0.
1	0200	25	0.	*	1	0815	100	0.	*	1	1430	175	0.	*	1	2045	250	0.
1	0205	26	0.	*	1	0820	101	0.	*	1	1435	176	0.	*	1	2050	251	0.
1	0210	27	0.	*	1	0825	102	0.	*	1	1440	177	0.	*	1	2055	252	0.
1	0215	28	0.	*	1	0830	103	0.	*	1	1445	178	0.	*	1	2100	253	0.
1	0220	29	0.	*	1	0835	104	0.	*	1	1450	179	0.	*	1	2105	254	0.
1	0225	30	0.	*	1	0840	105	0.	*	1	1455	180	0.	*	1	2110	255	0.
1	0230	31	0.	*	1	0845	106	0.	*	1	1500	181	0.	*	1	2115	256	0.
1	0235	32	0.	*	1	0850	107	0.	*	1	1505	182	0.	*	1	2120	257	0.
1	0240	33	0.	*	1	0855	108	0.	*	1	1510	183	0.	*	1	2125	258	0.
1	0245	34	0.	*	1	0900	109	0.	*	1	1515	184	0.	*	1	2130	259	0.
1	0250	35	0.	*	1	0905	110	0.	*	1	1520	185	0.	*	1	2135	260	0.
1	0255	36	0.	*	1	0910	111	0.	*	1	1525	186	0.	*	1	2140	261	0.
1	0300	37	0.	*	1	0915	112	0.	*	1	1530	187	0.	*	1	2145	262	0.
1	0305	38	0.	*	1	0920	113	0.	*	1	1535	188	0.	*	1	2150	263	0.
1	0310	39	0.	*	1	0925	114	0.	*	1	1540	189	0.	*	1	2155	264	0.
1	0315	40	0.	*	1	0930	115	0.	*	1	1545	190	0.	*	1	2200	265	0.
1	0320	41	0.	*	1	0935	116	0.	*	1	1550	191	0.	*	1	2205	266	0.
1	0325	42	0.	*	1	0940	117	0.	*	1	1555	192	0.	*	1	2210	267	0.
1	0330	43	0.	*	1	0945	118	0.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	0.	*	1	0950	119	0.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	0.	*	1	0955	120	0.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	0.	*	1	1000	121	0.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	0.	*	1	1005	122	0.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	0.	*	1	1010	123	0.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	0.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	0.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	0.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	0.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	0.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	0.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	0.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	0.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	0.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	0.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	0.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	0.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	0.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	0.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	0.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	0.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	0.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	0.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	0.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	0.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.

1	0540	69	0.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	0.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	0.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	0.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	0.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	0.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	0.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
0.	.08		0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = .57 SQ MI

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HYDROGRAPH AT STATION REME

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
					*						*						*					
1		0000	1	0.	*	1		0615	76	0.	*	1		1230	151	0.	*	1		1845	226	0.
1		0005	2	0.	*	1		0620	77	0.	*	1		1235	152	0.	*	1		1850	227	0.
1		0010	3	0.	*	1		0625	78	0.	*	1		1240	153	0.	*	1		1855	228	0.
1		0015	4	0.	*	1		0630	79	0.	*	1		1245	154	0.	*	1		1900	229	0.
1		0020	5	0.	*	1		0635	80	0.	*	1		1250	155	0.	*	1		1905	230	0.
1		0025	6	0.	*	1		0640	81	0.	*	1		1255	156	0.	*	1		1910	231	0.
1		0030	7	0.	*	1		0645	82	0.	*	1		1300	157	0.	*	1		1915	232	0.
1		0035	8	0.	*	1		0650	83	0.	*	1		1305	158	0.	*	1		1920	233	0.
1		0040	9	0.	*	1		0655	84	0.	*	1		1310	159	0.	*	1		1925	234	0.
1		0045	10	0.	*	1		0700	85	0.	*	1		1315	160	0.	*	1		1930	235	0.
1		0050	11	0.	*	1		0705	86	0.	*	1		1320	161	0.	*	1		1935	236	0.
1		0055	12	0.	*	1		0710	87	0.	*	1		1325	162	0.	*	1		1940	237	0.
1		0100	13	0.	*	1		0715	88	0.	*	1		1330	163	0.	*	1		1945	238	0.
1		0105	14	0.	*	1		0720	89	0.	*	1		1335	164	0.	*	1		1950	239	0.
1		0110	15	0.	*	1		0725	90	0.	*	1		1340	165	0.	*	1		1955	240	0.
1		0115	16	0.	*	1		0730	91	0.	*	1		1345	166	0.	*	1		2000	241	0.
1		0120	17	0.	*	1		0735	92	0.	*	1		1350	167	0.	*	1		2005	242	0.
1		0125	18	0.	*	1		0740	93	0.	*	1		1355	168	0.	*	1		2010	243	0.
1		0130	19	0.	*	1		0745	94	0.	*	1		1400	169	0.	*	1		2015	244	0.
1		0135	20	0.	*	1		0750	95	0.	*	1		1405	170	0.	*	1		2020	245	0.
1		0140	21	0.	*	1		0755	96	0.	*	1		1410	171	0.	*	1		2025	246	0.
1		0145	22	0.	*	1		0800	97	0.	*	1		1415	172	0.	*	1		2030	247	0.
1		0150	23	0.	*	1		0805	98	0.	*	1		1420	173	0.	*	1		2035	248	0.
1		0155	24	0.	*	1		0810	99	0.	*	1		1425	174	0.	*	1		2040	249	0.
1		0200	25	0.	*	1		0815	100	0.	*	1		1430	175	0.	*	1		2045	250	0.
1		0205	26	0.	*	1		0820	101	0.	*	1		1435	176	0.	*	1		2050	251	0.
1		0210	27	0.	*	1		0825	102	0.	*	1		1440	177	0.	*	1		2055	252	0.
1		0215	28	0.	*	1		0830	103	0.	*	1		1445	178	0.	*	1		2100	253	0.
1		0220	29	0.	*	1		0835	104	0.	*	1		1450	179	0.	*	1		2105	254	0.
1		0225	30	0.	*	1		0840	105	0.	*	1		1455	180	0.	*	1		2110	255	0.
1		0230	31	0.	*	1		0845	106	0.	*	1		1500	181	0.	*	1		2115	256	0.

1	0235	32	0.	*	1	0850	107	0.	*	1	1505	182	0.	*	1	2120	257	0.
1	0240	33	0.	*	1	0855	108	0.	*	1	1510	183	0.	*	1	2125	258	0.
1	0245	34	0.	*	1	0900	109	0.	*	1	1515	184	0.	*	1	2130	259	0.
1	0250	35	0.	*	1	0905	110	0.	*	1	1520	185	0.	*	1	2135	260	0.
1	0255	36	0.	*	1	0910	111	0.	*	1	1525	186	0.	*	1	2140	261	0.
1	0300	37	0.	*	1	0915	112	0.	*	1	1530	187	0.	*	1	2145	262	0.
1	0305	38	0.	*	1	0920	113	0.	*	1	1535	188	0.	*	1	2150	263	0.
1	0310	39	0.	*	1	0925	114	0.	*	1	1540	189	0.	*	1	2155	264	0.
1	0315	40	0.	*	1	0930	115	0.	*	1	1545	190	0.	*	1	2200	265	0.
1	0320	41	0.	*	1	0935	116	0.	*	1	1550	191	0.	*	1	2205	266	0.
1	0325	42	0.	*	1	0940	117	0.	*	1	1555	192	0.	*	1	2210	267	0.
1	0330	43	0.	*	1	0945	118	0.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	0.	*	1	0950	119	0.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	0.	*	1	0955	120	0.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	0.	*	1	1000	121	0.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	0.	*	1	1005	122	0.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	0.	*	1	1010	123	0.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	0.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	0.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	0.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	0.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	0.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	0.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	0.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	0.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	0.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	0.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	0.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	0.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	0.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	0.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	0.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	0.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	0.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	0.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	0.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	0.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	0.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	0.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	0.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	0.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	0.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	0.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	0.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)					
		(CFS)				
0.	.08		0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

CUMULATIVE AREA = .57 SQ MI

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          *            *
131 KK    *    RTEE2   *     F
          *            *
          **************
                        ROUTE HYDROGRAPH TO SUB BASIN F

137 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

             HYDROGRAPH ROUTING DATA

133 RS          STORAGE ROUTING
                      NSTPS          4  NUMBER OF SUBREACHES
                       ITYP       FLOW  TYPE OF INITIAL CONDITION
                     RSVRIC        .00  INITIAL CONDITION
                          X        .00 WORKING R AND D COEFFICIENT

134 RC          NORMAL DEPTH CHANNEL
                        ANL       .025  LEFT OVERBANK N-VALUE
                       ANCH       .015  MAIN CHANNEL N-VALUE
                        ANR       .025  RIGHT OVERBANK N-VALUE
                      RLNTH      5300.  REACH LENGTH
                        SEL      .0015  ENERGY SLOPE
                      ELMAX      103.0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                   CROSS-SECTION DATA
                        --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
136 RY        ELEVATION   102.00    101.00    100.00    102.00    101.00    101.54    101.00    103.00
135 RX        DISTANCE    100.00    150.00    152.00    156.00    158.00    185.00    212.00    216.00

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                                   COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

          STORAGE      .00       .01       .02       .05       .10       .15       .22       .40      1.03      2.13
          OUTFLOW      .00       .03       .17       .49      1.06      1.92      3.12      3.18      8.28     20.27
        ELEVATION   100.00    100.16    100.32    100.47    100.63    100.79    100.95    101.11    101.26    101.42

          STORAGE     3.70      5.52      7.51      9.66     11.86     14.06     16.27     18.48     20.70     22.93
          OUTFLOW    42.29     77.53    122.53    179.03    248.69    327.37    414.59    509.97    613.17    723.93
        ELEVATION   101.58    101.74    101.89    102.05    102.21    102.37    102.53    102.68    102.84    103.00
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HYDROGRAPH AT STATION RTEE2

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DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	100.0	1		0820	101	0.	.0	100.0	1		1640	201	0.	.0	100.0
1		0005	2	0.	.0	100.0	1		0825	102	0.	.0	100.0	1		1645	202	0.	.0	100.0
1		0010	3	0.	.0	100.0	1		0830	103	0.	.0	100.0	1		1650	203	0.	.0	100.0

1	0015	4	0.	.0	100.0	*	1	0835	104	0.	.0	100.0	*	1	1655	204	0.	.0	100.0
1	0020	5	0.	.0	100.0	*	1	0840	105	0.	.0	100.0	*	1	1700	205	0.	.0	100.0
1	0025	6	0.	.0	100.0	*	1	0845	106	0.	.0	100.0	*	1	1705	206	0.	.0	100.0
1	0030	7	0.	.0	100.0	*	1	0850	107	0.	.0	100.0	*	1	1710	207	0.	.0	100.0
1	0035	8	0.	.0	100.0	*	1	0855	108	0.	.0	100.0	*	1	1715	208	0.	.0	100.0
1	0040	9	0.	.0	100.0	*	1	0900	109	0.	.0	100.0	*	1	1720	209	0.	.0	100.0
1	0045	10	0.	.0	100.0	*	1	0905	110	0.	.0	100.0	*	1	1725	210	0.	.0	100.0
1	0050	11	0.	.0	100.0	*	1	0910	111	0.	.0	100.0	*	1	1730	211	0.	.0	100.0
1	0055	12	0.	.0	100.0	*	1	0915	112	0.	.0	100.0	*	1	1735	212	0.	.0	100.0
1	0100	13	0.	.0	100.0	*	1	0920	113	0.	.0	100.0	*	1	1740	213	0.	.0	100.0
1	0105	14	0.	.0	100.0	*	1	0925	114	0.	.0	100.0	*	1	1745	214	0.	.0	100.0
1	0110	15	0.	.0	100.0	*	1	0930	115	0.	.0	100.0	*	1	1750	215	0.	.0	100.0
1	0115	16	0.	.0	100.0	*	1	0935	116	0.	.0	100.0	*	1	1755	216	0.	.0	100.0
1	0120	17	0.	.0	100.0	*	1	0940	117	0.	.0	100.0	*	1	1800	217	0.	.0	100.0
1	0125	18	0.	.0	100.0	*	1	0945	118	0.	.0	100.0	*	1	1805	218	0.	.0	100.0
1	0130	19	0.	.0	100.0	*	1	0950	119	0.	.0	100.0	*	1	1810	219	0.	.0	100.0
1	0135	20	0.	.0	100.0	*	1	0955	120	0.	.0	100.0	*	1	1815	220	0.	.0	100.0
1	0140	21	0.	.0	100.0	*	1	1000	121	0.	.0	100.0	*	1	1820	221	0.	.0	100.0
1	0145	22	0.	.0	100.0	*	1	1005	122	0.	.0	100.0	*	1	1825	222	0.	.0	100.0
1	0150	23	0.	.0	100.0	*	1	1010	123	0.	.0	100.0	*	1	1830	223	0.	.0	100.0
1	0155	24	0.	.0	100.0	*	1	1015	124	0.	.0	100.0	*	1	1835	224	0.	.0	100.0
1	0200	25	0.	.0	100.0	*	1	1020	125	0.	.0	100.0	*	1	1840	225	0.	.0	100.0
1	0205	26	0.	.0	100.0	*	1	1025	126	0.	.0	100.0	*	1	1845	226	0.	.0	100.0
1	0210	27	0.	.0	100.0	*	1	1030	127	0.	.0	100.0	*	1	1850	227	0.	.0	100.0
1	0215	28	0.	.0	100.0	*	1	1035	128	0.	.0	100.0	*	1	1855	228	0.	.0	100.0
1	0220	29	0.	.0	100.0	*	1	1040	129	0.	.0	100.0	*	1	1900	229	0.	.0	100.0
1	0225	30	0.	.0	100.0	*	1	1045	130	0.	.0	100.0	*	1	1905	230	0.	.0	100.0
1	0230	31	0.	.0	100.0	*	1	1050	131	0.	.0	100.0	*	1	1910	231	0.	.0	100.0
1	0235	32	0.	.0	100.0	*	1	1055	132	0.	.0	100.0	*	1	1915	232	0.	.0	100.0
1	0240	33	0.	.0	100.0	*	1	1100	133	0.	.0	100.0	*	1	1920	233	0.	.0	100.0
1	0245	34	0.	.0	100.0	*	1	1105	134	0.	.0	100.0	*	1	1925	234	0.	.0	100.0
1	0250	35	0.	.0	100.0	*	1	1110	135	0.	.0	100.0	*	1	1930	235	0.	.0	100.0
1	0255	36	0.	.0	100.0	*	1	1115	136	0.	.0	100.0	*	1	1935	236	0.	.0	100.0
1	0300	37	0.	.0	100.0	*	1	1120	137	0.	.0	100.0	*	1	1940	237	0.	.0	100.0
1	0305	38	0.	.0	100.0	*	1	1125	138	0.	.0	100.0	*	1	1945	238	0.	.0	100.0
1	0310	39	0.	.0	100.0	*	1	1130	139	0.	.0	100.0	*	1	1950	239	0.	.0	100.0
1	0315	40	0.	.0	100.0	*	1	1135	140	0.	.0	100.0	*	1	1955	240	0.	.0	100.0
1	0320	41	0.	.0	100.0	*	1	1140	141	0.	.0	100.0	*	1	2000	241	0.	.0	100.0
1	0325	42	0.	.0	100.0	*	1	1145	142	0.	.0	100.0	*	1	2005	242	0.	.0	100.0
1	0330	43	0.	.0	100.0	*	1	1150	143	0.	.0	100.0	*	1	2010	243	0.	.0	100.0
1	0335	44	0.	.0	100.0	*	1	1155	144	0.	.0	100.0	*	1	2015	244	0.	.0	100.0
1	0340	45	0.	.0	100.0	*	1	1200	145	0.	.0	100.0	*	1	2020	245	0.	.0	100.0
1	0345	46	0.	.0	100.0	*	1	1205	146	0.	.0	100.0	*	1	2025	246	0.	.0	100.0
1	0350	47	0.	.0	100.0	*	1	1210	147	0.	.0	100.0	*	1	2030	247	0.	.0	100.0
1	0355	48	0.	.0	100.0	*	1	1215	148	0.	.0	100.0	*	1	2035	248	0.	.0	100.0
1	0400	49	0.	.0	100.0	*	1	1220	149	0.	.0	100.0	*	1	2040	249	0.	.0	100.0
1	0405	50	0.	.0	100.0	*	1	1225	150	0.	.0	100.0	*	1	2045	250	0.	.0	100.0
1	0410	51	0.	.0	100.0	*	1	1230	151	0.	.0	100.0	*	1	2050	251	0.	.0	100.0
1	0415	52	0.	.0	100.0	*	1	1235	152	0.	.0	100.0	*	1	2055	252	0.	.0	100.0
1	0420	53	0.	.0	100.0	*	1	1240	153	0.	.0	100.0	*	1	2100	253	0.	.0	100.0
1	0425	54	0.	.0	100.0	*	1	1245	154	0.	.0	100.0	*	1	2105	254	0.	.0	100.0
1	0430	55	0.	.0	100.0	*	1	1250	155	0.	.0	100.0	*	1	2110	255	0.	.0	100.0
1	0435	56	0.	.0	100.0	*	1	1255	156	0.	.0	100.0	*	1	2115	256	0.	.0	100.0
1	0440	57	0.	.0	100.0	*	1	1300	157	0.	.0	100.0	*	1	2120	257	0.	.0	100.0
1	0445	58	0.	.0	100.0	*	1	1305	158	0.	.0	100.0	*	1	2125	258	0.	.0	100.0
1	0450	59	0.	.0	100.0	*	1	1310	159	0.	.0	100.0	*	1	2130	259	0.	.0	100.0
1	0455	60	0.	.0	100.0	*	1	1315	160	0.	.0	100.0	*	1	2135	260	0.	.0	100.0
1	0500	61	0.	.0	100.0	*	1	1320	161	0.	.0	100.0	*	1	2140	261	0.	.0	100.0
1	0505	62	0.	.0	100.0	*	1	1325	162	0.	.0	100.0	*	1	2145	262	0.	.0	100.0
1	0510	63	0.	.0	100.0	*	1	1330	163	0.	.0	100.0	*	1	2150	263	0.	.0	100.0

1	0515	64	0.	.0	100.0	*	1	1335	164	0.	.0	100.0	*	1	2155	264	0.	.0	100.0
1	0520	65	0.	.0	100.0	*	1	1340	165	0.	.0	100.0	*	1	2200	265	0.	.0	100.0
1	0525	66	0.	.0	100.0	*	1	1345	166	0.	.0	100.0	*	1	2205	266	0.	.0	100.0
1	0530	67	0.	.0	100.0	*	1	1350	167	0.	.0	100.0	*	1	2210	267	0.	.0	100.0
1	0535	68	0.	.0	100.0	*	1	1355	168	0.	.0	100.0	*	1	2215	268	0.	.0	100.0
1	0540	69	0.	.0	100.0	*	1	1400	169	0.	.0	100.0	*	1	2220	269	0.	.0	100.0
1	0545	70	0.	.0	100.0	*	1	1405	170	0.	.0	100.0	*	1	2225	270	0.	.0	100.0
1	0550	71	0.	.0	100.0	*	1	1410	171	0.	.0	100.0	*	1	2230	271	0.	.0	100.0
1	0555	72	0.	.0	100.0	*	1	1415	172	0.	.0	100.0	*	1	2235	272	0.	.0	100.0
1	0600	73	0.	.0	100.0	*	1	1420	173	0.	.0	100.0	*	1	2240	273	0.	.0	100.0
1	0605	74	0.	.0	100.0	*	1	1425	174	0.	.0	100.0	*	1	2245	274	0.	.0	100.0
1	0610	75	0.	.0	100.0	*	1	1430	175	0.	.0	100.0	*	1	2250	275	0.	.0	100.0
1	0615	76	0.	.0	100.0	*	1	1435	176	0.	.0	100.0	*	1	2255	276	0.	.0	100.0
1	0620	77	0.	.0	100.0	*	1	1440	177	0.	.0	100.0	*	1	2300	277	0.	.0	100.0
1	0625	78	0.	.0	100.0	*	1	1445	178	0.	.0	100.0	*	1	2305	278	0.	.0	100.0
1	0630	79	0.	.0	100.0	*	1	1450	179	0.	.0	100.0	*	1	2310	279	0.	.0	100.0
1	0635	80	0.	.0	100.0	*	1	1455	180	0.	.0	100.0	*	1	2315	280	0.	.0	100.0
1	0640	81	0.	.0	100.0	*	1	1500	181	0.	.0	100.0	*	1	2320	281	0.	.0	100.0
1	0645	82	0.	.0	100.0	*	1	1505	182	0.	.0	100.0	*	1	2325	282	0.	.0	100.0
1	0650	83	0.	.0	100.0	*	1	1510	183	0.	.0	100.0	*	1	2330	283	0.	.0	100.0
1	0655	84	0.	.0	100.0	*	1	1515	184	0.	.0	100.0	*	1	2335	284	0.	.0	100.0
1	0700	85	0.	.0	100.0	*	1	1520	185	0.	.0	100.0	*	1	2340	285	0.	.0	100.0
1	0705	86	0.	.0	100.0	*	1	1525	186	0.	.0	100.0	*	1	2345	286	0.	.0	100.0
1	0710	87	0.	.0	100.0	*	1	1530	187	0.	.0	100.0	*	1	2350	287	0.	.0	100.0
1	0715	88	0.	.0	100.0	*	1	1535	188	0.	.0	100.0	*	1	2355	288	0.	.0	100.0
1	0720	89	0.	.0	100.0	*	1	1540	189	0.	.0	100.0	*	2	0000	289	0.	.0	100.0
1	0725	90	0.	.0	100.0	*	1	1545	190	0.	.0	100.0	*	2	0005	290	0.	.0	100.0
1	0730	91	0.	.0	100.0	*	1	1550	191	0.	.0	100.0	*	2	0010	291	0.	.0	100.0
1	0735	92	0.	.0	100.0	*	1	1555	192	0.	.0	100.0	*	2	0015	292	0.	.0	100.0
1	0740	93	0.	.0	100.0	*	1	1600	193	0.	.0	100.0	*	2	0020	293	0.	.0	100.0
1	0745	94	0.	.0	100.0	*	1	1605	194	0.	.0	100.0	*	2	0025	294	0.	.0	100.0
1	0750	95	0.	.0	100.0	*	1	1610	195	0.	.0	100.0	*	2	0030	295	0.	.0	100.0
1	0755	96	0.	.0	100.0	*	1	1615	196	0.	.0	100.0	*	2	0035	296	0.	.0	100.0
1	0800	97	0.	.0	100.0	*	1	1620	197	0.	.0	100.0	*	2	0040	297	0.	.0	100.0
1	0805	98	0.	.0	100.0	*	1	1625	198	0.	.0	100.0	*	2	0045	298	0.	.0	100.0
1	0810	99	0.	.0	100.0	*	1	1630	199	0.	.0	100.0	*	2	0050	299	0.	.0	100.0
1	0815	100	0.	.0	100.0	*	1	1635	200	0.	.0	100.0	*	2	0055	300	0.	.0	100.0
						*							*						

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AK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)					
		(CFS)				
0.	.08		0.	0.	0.	0.
		(INCHES)	.000	.000	.000	.000
		(AC-FT)	0.	0.	0.	0.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
(AC-FT)	(HR)				
0.	.08	0.	0.	0.	0.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
(FEET)	(HR)				
100.00	.00	100.00	100.00	100.00	100.00

CUMULATIVE AREA = .57 SQ MI

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*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


          **************
          *            *
138 KK    *     F      *
          *            *
          **************
                         SUB-BASIN F
                         6-HOUR RAINFALL, PATTERN NO. 2.10 WAS USED TO FIND TC & R FOR THIS BASIN
                         THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .971
                           L =  .99  Kb = .051  Adj. Slope =  6.9

148 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

              SUBBASIN RUNOFF DATA

143 BA          SUBBASIN CHARACTERISTICS
                      TAREA        .20  SUBBASIN AREA

                PRECIPITATION DATA

 14 PB                STORM       1.94  BASIN TOTAL PRECIPITATION

 14 PI            INCREMENTAL PRECIPITATION PATTERN
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00       .00       .01       .01       .01       .01       .01       .01       .03
                     .03       .03       .06       .06       .06       .08       .08       .08       .05       .05
                     .05       .02       .02       .02       .01       .01       .01       .00       .00       .00
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00

144 LG          GREEN AND AMPT LOSS RATE
                      STRTL        .50  STARTING LOSS
                        DTH        .15  MOISTURE DEFICIT
                       PSIF       7.10  WETTING FRONT SUCTION
                      XKSAT        .10  HYDRAULIC CONDUCTIVITY
                      RTIMP        .00  PERCENT IMPERVIOUS AREA

145 UC          CLARK UNITGRAPH
                         TC       1.21  TIME OF CONCENTRATION
                          R       1.13  STORAGE COEFFICIENT

146 UA          ACCUMULATED-AREA VS. TIME,  11 ORDINATES
                        .0       5.0      16.0      30.0      65.0      77.0      84.0      90.0      94.0      97.0
                     100.0

                                                   ***

                                          UNIT HYDROGRAPH PARAMETERS
                                     CLARK   TC=  1.21 HR,       R=  1.13 HR
                                    SNYDER   TP=   .75 HR,      CP=   .41
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UNIT HYDROGRAPH

79 END-OF-PERIOD ORDINATES

2.	7.	14.	22.	37.	56.	68.	71.	72.	72.
70.	68.	66.	64.	61.	57.	53.	49.	46.	43.
40.	37.	34.	32.	29.	27.	25.	24.	22.	20.
19.	18.	16.	15.	14.	13.	12.	11.	11.	10.
9.	8.	8.	7.	7.	6.	6.	5.	5.	5.
4.	4.	4.	3.	3.	3.	3.	3.	2.	2.
2.	2.	2.	2.	2.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	

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HYDROGRAPH AT STATION F

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DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA	MON	HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
								*								
1		0000	1	.00	.00	.00	0.	*	1		1230	151	.00	.00	.00	0.
1		0005	2	.01	.01	.00	0.	*	1		1235	152	.00	.00	.00	0.
1		0010	3	.01	.01	.00	0.	*	1		1240	153	.00	.00	.00	0.
1		0015	4	.01	.01	.00	0.	*	1		1245	154	.00	.00	.00	0.
1		0020	5	.00	.00	.00	0.	*	1		1250	155	.00	.00	.00	0.
1		0025	6	.00	.00	.00	0.	*	1		1255	156	.00	.00	.00	0.
1		0030	7	.00	.00	.00	0.	*	1		1300	157	.00	.00	.00	0.
1		0035	8	.01	.01	.00	0.	*	1		1305	158	.00	.00	.00	0.
1		0040	9	.01	.01	.00	0.	*	1		1310	159	.00	.00	.00	0.
1		0045	10	.01	.01	.00	0.	*	1		1315	160	.00	.00	.00	0.
1		0050	11	.01	.01	.00	0.	*	1		1320	161	.00	.00	.00	0.
1		0055	12	.01	.01	.00	0.	*	1		1325	162	.00	.00	.00	0.
1		0100	13	.01	.01	.00	0.	*	1		1330	163	.00	.00	.00	0.
1		0105	14	.01	.01	.00	0.	*	1		1335	164	.00	.00	.00	0.
1		0110	15	.01	.01	.00	0.	*	1		1340	165	.00	.00	.00	0.
1		0115	16	.01	.01	.00	0.	*	1		1345	166	.00	.00	.00	0.
1		0120	17	.01	.01	.00	0.	*	1		1350	167	.00	.00	.00	0.
1		0125	18	.01	.01	.00	0.	*	1		1355	168	.00	.00	.00	0.
1		0130	19	.01	.01	.00	0.	*	1		1400	169	.00	.00	.00	0.
1		0135	20	.01	.01	.00	0.	*	1		1405	170	.00	.00	.00	0.
1		0140	21	.01	.01	.00	0.	*	1		1410	171	.00	.00	.00	0.
1		0145	22	.01	.01	.00	0.	*	1		1415	172	.00	.00	.00	0.
1		0150	23	.01	.01	.00	0.	*	1		1420	173	.00	.00	.00	0.
1		0155	24	.01	.01	.00	0.	*	1		1425	174	.00	.00	.00	0.
1		0200	25	.01	.01	.00	0.	*	1		1430	175	.00	.00	.00	0.
1		0205	26	.01	.01	.00	0.	*	1		1435	176	.00	.00	.00	0.
1		0210	27	.01	.01	.00	0.	*	1		1440	177	.00	.00	.00	0.
1		0215	28	.01	.01	.00	0.	*	1		1445	178	.00	.00	.00	0.
1		0220	29	.01	.01	.00	0.	*	1		1450	179	.00	.00	.00	0.
1		0225	30	.01	.01	.00	0.	*	1		1455	180	.00	.00	.00	0.
1		0230	31	.01	.01	.00	0.	*	1		1500	181	.00	.00	.00	0.
1		0235	32	.01	.01	.00	0.	*	1		1505	182	.00	.00	.00	0.
1		0240	33	.01	.01	.00	0.	*	1		1510	183	.00	.00	.00	0.
1		0245	34	.01	.01	.00	0.	*	1		1515	184	.00	.00	.00	0.
1		0250	35	.01	.01	.00	0.	*	1		1520	185	.00	.00	.00	0.
1		0255	36	.01	.01	.00	0.	*	1		1525	186	.00	.00	.00	0.
1		0300	37	.01	.01	.00	0.	*	1		1530	187	.00	.00	.00	0.
1		0305	38	.03	.03	.00	0.	*	1		1535	188	.00	.00	.00	0.
1		0310	39	.03	.03	.00	0.	*	1		1540	189	.00	.00	.00	0.
1		0315	40	.03	.03	.00	0.	*	1		1545	190	.00	.00	.00	0.

1	0320	41	.06	.06	.00	0.	*	1	1550	191	.00	.00	.00	0.
1	0325	42	.06	.06	.00	0.	*	1	1555	192	.00	.00	.00	0.
1	0330	43	.06	.06	.00	0.	*	1	1600	193	.00	.00	.00	0.
1	0335	44	.13	.11	.01	0.	*	1	1605	194	.00	.00	.00	0.
1	0340	45	.13	.07	.06	0.	*	1	1610	195	.00	.00	.00	0.
1	0345	46	.13	.05	.08	1.	*	1	1615	196	.00	.00	.00	0.
1	0350	47	.15	.04	.11	2.	*	1	1620	197	.00	.00	.00	0.
1	0355	48	.15	.04	.12	4.	*	1	1625	198	.00	.00	.00	0.
1	0400	49	.15	.03	.12	7.	*	1	1630	199	.00	.00	.00	0.
1	0405	50	.09	.03	.06	12.	*	1	1635	200	.00	.00	.00	0.
1	0410	51	.09	.03	.06	18.	*	1	1640	201	.00	.00	.00	0.
1	0415	52	.09	.03	.06	25.	*	1	1645	202	.00	.00	.00	0.
1	0420	53	.04	.03	.01	32.	*	1	1650	203	.00	.00	.00	0.
1	0425	54	.04	.03	.02	38.	*	1	1655	204	.00	.00	.00	0.
1	0430	55	.04	.03	.02	42.	*	1	1700	205	.00	.00	.00	0.
1	0435	56	.03	.02	.00	46.	*	1	1705	206	.00	.00	.00	0.
1	0440	57	.03	.02	.00	48.	*	1	1710	207	.00	.00	.00	0.
1	0445	58	.03	.02	.00	49.	*	1	1715	208	.00	.00	.00	0.
1	0450	59	.01	.01	.00	49.	*	1	1720	209	.00	.00	.00	0.
1	0455	60	.01	.01	.00	48.	*	1	1725	210	.00	.00	.00	0.
1	0500	61	.01	.01	.00	47.	*	1	1730	211	.00	.00	.00	0.
1	0505	62	.01	.01	.00	45.	*	1	1735	212	.00	.00	.00	0.
1	0510	63	.01	.01	.00	43.	*	1	1740	213	.00	.00	.00	0.
1	0515	64	.01	.01	.00	40.	*	1	1745	214	.00	.00	.00	0.
1	0520	65	.01	.01	.00	38.	*	1	1750	215	.00	.00	.00	0.
1	0525	66	.01	.01	.00	36.	*	1	1755	216	.00	.00	.00	0.
1	0530	67	.01	.01	.00	33.	*	1	1800	217	.00	.00	.00	0.
1	0535	68	.01	.01	.00	31.	*	1	1805	218	.00	.00	.00	0.
1	0540	69	.01	.01	.00	29.	*	1	1810	219	.00	.00	.00	0.
1	0545	70	.01	.01	.00	27.	*	1	1815	220	.00	.00	.00	0.
1	0550	71	.01	.01	.00	25.	*	1	1820	221	.00	.00	.00	0.
1	0555	72	.01	.01	.00	23.	*	1	1825	222	.00	.00	.00	0.
1	0600	73	.01	.01	.00	21.	*	1	1830	223	.00	.00	.00	0.
1	0605	74	.00	.00	.00	20.	*	1	1835	224	.00	.00	.00	0.
1	0610	75	.00	.00	.00	19.	*	1	1840	225	.00	.00	.00	0.
1	0615	76	.00	.00	.00	17.	*	1	1845	226	.00	.00	.00	0.
1	0620	77	.00	.00	.00	16.	*	1	1850	227	.00	.00	.00	0.
1	0625	78	.00	.00	.00	15.	*	1	1855	228	.00	.00	.00	0.
1	0630	79	.00	.00	.00	14.	*	1	1900	229	.00	.00	.00	0.
1	0635	80	.00	.00	.00	13.	*	1	1905	230	.00	.00	.00	0.
1	0640	81	.00	.00	.00	12.	*	1	1910	231	.00	.00	.00	0.
1	0645	82	.00	.00	.00	11.	*	1	1915	232	.00	.00	.00	0.
1	0650	83	.00	.00	.00	10.	*	1	1920	233	.00	.00	.00	0.
1	0655	84	.00	.00	.00	10.	*	1	1925	234	.00	.00	.00	0.
1	0700	85	.00	.00	.00	9.	*	1	1930	235	.00	.00	.00	0.
1	0705	86	.00	.00	.00	8.	*	1	1935	236	.00	.00	.00	0.
1	0710	87	.00	.00	.00	8.	*	1	1940	237	.00	.00	.00	0.
1	0715	88	.00	.00	.00	7.	*	1	1945	238	.00	.00	.00	0.
1	0720	89	.00	.00	.00	7.	*	1	1950	239	.00	.00	.00	0.
1	0725	90	.00	.00	.00	6.	*	1	1955	240	.00	.00	.00	0.
1	0730	91	.00	.00	.00	6.	*	1	2000	241	.00	.00	.00	0.
1	0735	92	.00	.00	.00	5.	*	1	2005	242	.00	.00	.00	0.
1	0740	93	.00	.00	.00	5.	*	1	2010	243	.00	.00	.00	0.
1	0745	94	.00	.00	.00	5.	*	1	2015	244	.00	.00	.00	0.
1	0750	95	.00	.00	.00	4.	*	1	2020	245	.00	.00	.00	0.
1	0755	96	.00	.00	.00	4.	*	1	2025	246	.00	.00	.00	0.
1	0800	97	.00	.00	.00	4.	*	1	2030	247	.00	.00	.00	0.
1	0805	98	.00	.00	.00	3.	*	1	2035	248	.00	.00	.00	0.
1	0810	99	.00	.00	.00	3.	*	1	2040	249	.00	.00	.00	0.
1	0815	100	.00	.00	.00	3.	*	1	2045	250	.00	.00	.00	0.

1	0820	101	.00	.00	.00	3.	*	1	2050	251	.00	.00	.00	0.
1	0825	102	.00	.00	.00	3.	*	1	2055	252	.00	.00	.00	0.
1	0830	103	.00	.00	.00	2.	*	1	2100	253	.00	.00	.00	0.
1	0835	104	.00	.00	.00	2.	*	1	2105	254	.00	.00	.00	0.
1	0840	105	.00	.00	.00	2.	*	1	2110	255	.00	.00	.00	0.
1	0845	106	.00	.00	.00	2.	*	1	2115	256	.00	.00	.00	0.
1	0850	107	.00	.00	.00	2.	*	1	2120	257	.00	.00	.00	0.
1	0855	108	.00	.00	.00	2.	*	1	2125	258	.00	.00	.00	0.
1	0900	109	.00	.00	.00	2.	*	1	2130	259	.00	.00	.00	0.
1	0905	110	.00	.00	.00	1.	*	1	2135	260	.00	.00	.00	0.
1	0910	111	.00	.00	.00	1.	*	1	2140	261	.00	.00	.00	0.
1	0915	112	.00	.00	.00	1.	*	1	2145	262	.00	.00	.00	0.
1	0920	113	.00	.00	.00	1.	*	1	2150	263	.00	.00	.00	0.
1	0925	114	.00	.00	.00	1.	*	1	2155	264	.00	.00	.00	0.
1	0930	115	.00	.00	.00	1.	*	1	2200	265	.00	.00	.00	0.
1	0935	116	.00	.00	.00	1.	*	1	2205	266	.00	.00	.00	0.
1	0940	117	.00	.00	.00	1.	*	1	2210	267	.00	.00	.00	0.
1	0945	118	.00	.00	.00	1.	*	1	2215	268	.00	.00	.00	0.
1	0950	119	.00	.00	.00	1.	*	1	2220	269	.00	.00	.00	0.
1	0955	120	.00	.00	.00	1.	*	1	2225	270	.00	.00	.00	0.
1	1000	121	.00	.00	.00	1.	*	1	2230	271	.00	.00	.00	0.
1	1005	122	.00	.00	.00	1.	*	1	2235	272	.00	.00	.00	0.
1	1010	123	.00	.00	.00	1.	*	1	2240	273	.00	.00	.00	0.
1	1015	124	.00	.00	.00	0.	*	1	2245	274	.00	.00	.00	0.
1	1020	125	.00	.00	.00	0.	*	1	2250	275	.00	.00	.00	0.
1	1025	126	.00	.00	.00	0.	*	1	2255	276	.00	.00	.00	0.
1	1030	127	.00	.00	.00	0.	*	1	2300	277	.00	.00	.00	0.
1	1035	128	.00	.00	.00	0.	*	1	2305	278	.00	.00	.00	0.
1	1040	129	.00	.00	.00	0.	*	1	2310	279	.00	.00	.00	0.
1	1045	130	.00	.00	.00	0.	*	1	2315	280	.00	.00	.00	0.
1	1050	131	.00	.00	.00	0.	*	1	2320	281	.00	.00	.00	0.
1	1055	132	.00	.00	.00	0.	*	1	2325	282	.00	.00	.00	0.
1	1100	133	.00	.00	.00	0.	*	1	2330	283	.00	.00	.00	0.
1	1105	134	.00	.00	.00	0.	*	1	2335	284	.00	.00	.00	0.
1	1110	135	.00	.00	.00	0.	*	1	2340	285	.00	.00	.00	0.
1	1115	136	.00	.00	.00	0.	*	1	2345	286	.00	.00	.00	0.
1	1120	137	.00	.00	.00	0.	*	1	2350	287	.00	.00	.00	0.
1	1125	138	.00	.00	.00	0.	*	1	2355	288	.00	.00	.00	0.
1	1130	139	.00	.00	.00	0.	*	2	0000	289	.00	.00	.00	0.
1	1135	140	.00	.00	.00	0.	*	2	0005	290	.00	.00	.00	0.
1	1140	141	.00	.00	.00	0.	*	2	0010	291	.00	.00	.00	0.
1	1145	142	.00	.00	.00	0.	*	2	0015	292	.00	.00	.00	0.
1	1150	143	.00	.00	.00	0.	*	2	0020	293	.00	.00	.00	0.
1	1155	144	.00	.00	.00	0.	*	2	0025	294	.00	.00	.00	0.
1	1200	145	.00	.00	.00	0.	*	2	0030	295	.00	.00	.00	0.
1	1205	146	.00	.00	.00	0.	*	2	0035	296	.00	.00	.00	0.
1	1210	147	.00	.00	.00	0.	*	2	0040	297	.00	.00	.00	0.
1	1215	148	.00	.00	.00	0.	*	2	0045	298	.00	.00	.00	0.
1	1220	149	.00	.00	.00	0.	*	2	0050	299	.00	.00	.00	0.
1	1225	150	.00	.00	.00	0.	*	2	0055	300	.00	.00	.00	0.
							*							

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TOTAL RAINFALL = 1.94, TOTAL LOSS = 1.21, TOTAL EXCESS = .73

PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW (CFS) 6-HR	24-HR	72-HR	24.92-HR
49.	4.75	16.	4.	4.	4.

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                (INCHES)      .724        .728        .728        .728
                 (AC-FT)       8.          8.          8.          8.

                 CUMULATIVE AREA =     .20 SQ MI
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          **************
          *            *
149 KK    *     RTEF   *
          *            *
          **************
                    ROUTE SUB BASIN F THROUGH RESERVOIR TO REMOVE DEVELOPED AREA STORAGE

156 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

             HYDROGRAPH ROUTING DATA

151 RS          STORAGE ROUTING
                      NSTPS          1  NUMBER OF SUBREACHES
                       ITYP       STOR  TYPE OF INITIAL CONDITION
                     RSVRIC        .00  INITIAL CONDITION
                          X        .00 WORKING R AND D COEFFICIENT

152 SV            STORAGE         .0       2.0       4.0       6.0       6.8       8.0

153 SE          ELEVATION      100.00    101.00    102.00    103.00    104.00    105.00

154 SQ          DISCHARGE         0.        0.        0.        0.        0.      250.

155 SE          ELEVATION      100.00    101.00    102.00    103.00    104.00    105.00
                                                          ***

                                        COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

           STORAGE        .00      2.00      4.00      6.00      6.83      8.00
           OUTFLOW        .00       .00       .00       .00       .00    250.00
         ELEVATION     100.00    101.00    102.00    103.00    104.00    105.00
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HYDROGRAPH AT STATION RTEF

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DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	100.0	*	1		0820	101	3.	6.8	104.0	*	1		1640	201	0.	6.8	104.0
1		0005	2	0.	.0	100.0	*	1		0825	102	3.	6.8	104.0	*	1		1645	202	0.	6.8	104.0
1		0010	3	0.	.0	100.0	*	1		0830	103	2.	6.8	104.0	*	1		1650	203	0.	6.8	104.0
1		0015	4	0.	.0	100.0	*	1		0835	104	2.	6.8	104.0	*	1		1655	204	0.	6.8	104.0
1		0020	5	0.	.0	100.0	*	1		0840	105	2.	6.8	104.0	*	1		1700	205	0.	6.8	104.0

1	0025	6	0.	.0	100.0	*	1	0845	106	2.	6.8	104.0	*	1	1705	206	0.	6.8	104.0
1	0030	7	0.	.0	100.0	*	1	0850	107	2.	6.8	104.0	*	1	1710	207	0.	6.8	104.0
1	0035	8	0.	.0	100.0	*	1	0855	108	2.	6.8	104.0	*	1	1715	208	0.	6.8	104.0
1	0040	9	0.	.0	100.0	*	1	0900	109	2.	6.8	104.0	*	1	1720	209	0.	6.8	104.0
1	0045	10	0.	.0	100.0	*	1	0905	110	1.	6.8	104.0	*	1	1725	210	0.	6.8	104.0
1	0050	11	0.	.0	100.0	*	1	0910	111	1.	6.8	104.0	*	1	1730	211	0.	6.8	104.0
1	0055	12	0.	.0	100.0	*	1	0915	112	1.	6.8	104.0	*	1	1735	212	0.	6.8	104.0
1	0100	13	0.	.0	100.0	*	1	0920	113	1.	6.8	104.0	*	1	1740	213	0.	6.8	104.0
1	0105	14	0.	.0	100.0	*	1	0925	114	1.	6.8	104.0	*	1	1745	214	0.	6.8	104.0
1	0110	15	0.	.0	100.0	*	1	0930	115	1.	6.8	104.0	*	1	1750	215	0.	6.8	104.0
1	0115	16	0.	.0	100.0	*	1	0935	116	1.	6.8	104.0	*	1	1755	216	0.	6.8	104.0
1	0120	17	0.	.0	100.0	*	1	0940	117	1.	6.8	104.0	*	1	1800	217	0.	6.8	104.0
1	0125	18	0.	.0	100.0	*	1	0945	118	1.	6.8	104.0	*	1	1805	218	0.	6.8	104.0
1	0130	19	0.	.0	100.0	*	1	0950	119	1.	6.8	104.0	*	1	1810	219	0.	6.8	104.0
1	0135	20	0.	.0	100.0	*	1	0955	120	1.	6.8	104.0	*	1	1815	220	0.	6.8	104.0
1	0140	21	0.	.0	100.0	*	1	1000	121	1.	6.8	104.0	*	1	1820	221	0.	6.8	104.0
1	0145	22	0.	.0	100.0	*	1	1005	122	1.	6.8	104.0	*	1	1825	222	0.	6.8	104.0
1	0150	23	0.	.0	100.0	*	1	1010	123	1.	6.8	104.0	*	1	1830	223	0.	6.8	104.0
1	0155	24	0.	.0	100.0	*	1	1015	124	1.	6.8	104.0	*	1	1835	224	0.	6.8	104.0
1	0200	25	0.	.0	100.0	*	1	1020	125	0.	6.8	104.0	*	1	1840	225	0.	6.8	104.0
1	0205	26	0.	.0	100.0	*	1	1025	126	0.	6.8	104.0	*	1	1845	226	0.	6.8	104.0
1	0210	27	0.	.0	100.0	*	1	1030	127	0.	6.8	104.0	*	1	1850	227	0.	6.8	104.0
1	0215	28	0.	.0	100.0	*	1	1035	128	0.	6.8	104.0	*	1	1855	228	0.	6.8	104.0
1	0220	29	0.	.0	100.0	*	1	1040	129	0.	6.8	104.0	*	1	1900	229	0.	6.8	104.0
1	0225	30	0.	.0	100.0	*	1	1045	130	0.	6.8	104.0	*	1	1905	230	0.	6.8	104.0
1	0230	31	0.	.0	100.0	*	1	1050	131	0.	6.8	104.0	*	1	1910	231	0.	6.8	104.0
1	0235	32	0.	.0	100.0	*	1	1055	132	0.	6.8	104.0	*	1	1915	232	0.	6.8	104.0
1	0240	33	0.	.0	100.0	*	1	1100	133	0.	6.8	104.0	*	1	1920	233	0.	6.8	104.0
1	0245	34	0.	.0	100.0	*	1	1105	134	0.	6.8	104.0	*	1	1925	234	0.	6.8	104.0
1	0250	35	0.	.0	100.0	*	1	1110	135	0.	6.8	104.0	*	1	1930	235	0.	6.8	104.0
1	0255	36	0.	.0	100.0	*	1	1115	136	0.	6.8	104.0	*	1	1935	236	0.	6.8	104.0
1	0300	37	0.	.0	100.0	*	1	1120	137	0.	6.8	104.0	*	1	1940	237	0.	6.8	104.0
1	0305	38	0.	.0	100.0	*	1	1125	138	0.	6.8	104.0	*	1	1945	238	0.	6.8	104.0
1	0310	39	0.	.0	100.0	*	1	1130	139	0.	6.8	104.0	*	1	1950	239	0.	6.8	104.0
1	0315	40	0.	.0	100.0	*	1	1135	140	0.	6.8	104.0	*	1	1955	240	0.	6.8	104.0
1	0320	41	0.	.0	100.0	*	1	1140	141	0.	6.8	104.0	*	1	2000	241	0.	6.8	104.0
1	0325	42	0.	.0	100.0	*	1	1145	142	0.	6.8	104.0	*	1	2005	242	0.	6.8	104.0
1	0330	43	0.	.0	100.0	*	1	1150	143	0.	6.8	104.0	*	1	2010	243	0.	6.8	104.0
	0335	44	0.	.0	100.0	*	1	1155	144	0.	6.8	104.0	*	1	2015	244	0.	6.8	104.0
	0340	45	0.	.0	100.0	*	1	1200	145	0.	6.8	104.0	*	1	2020	245	0.	6.8	104.0
	0345	46	0.	.0	100.0	*	1	1205	146	0.	6.8	104.0	*	1	2025	246	0.	6.8	104.0
	0350	47	0.	.0	100.0	*	1	1210	147	0.	6.8	104.0	*	1	2030	247	0.	6.8	104.0
	0355	48	0.	.0	100.0	*	1	1215	148	0.	6.8	104.0	*	1	2035	248	0.	6.8	104.0
	0400	49	0.	.1	100.0	*	1	1220	149	0.	6.8	104.0	*	1	2040	249	0.	6.8	104.0
	0405	50	0.	.1	100.1	*	1	1225	150	0.	6.8	104.0	*	1	2045	250	0.	6.8	104.0
1	0410	51	0.	.2	100.1	*	1	1230	151	0.	6.8	104.0	*	1	2050	251	0.	6.8	104.0
1	0415	52	0.	.4	100.2	*	1	1235	152	0.	6.8	104.0	*	1	2055	252	0.	6.8	104.0
1	0420	53	0.	.6	100.3	*	1	1240	153	0.	6.8	104.0	*	1	2100	253	0.	6.8	104.0
1	0425	54	0.	.8	100.4	*	1	1245	154	0.	6.8	104.0	*	1	2105	254	0.	6.8	104.0
1	0430	55	0.	1.1	100.6	*	1	1250	155	0.	6.8	104.0	*	1	2110	255	0.	6.8	104.0
1	0435	56	0.	1.4	100.7	*	1	1255	156	0.	6.8	104.0	*	1	2115	256	0.	6.8	104.0
1	0440	57	0.	1.7	100.9	*	1	1300	157	0.	6.8	104.0	*	1	2120	257	0.	6.8	104.0
1	0445	58	0.	2.1	101.0	*	1	1305	158	0.	6.8	104.0	*	1	2125	258	0.	6.8	104.0
1	0450	59	0.	2.4	101.2	*	1	1310	159	0.	6.8	104.0	*	1	2130	259	0.	6.8	104.0
1	0455	60	0.	2.7	101.4	*	1	1315	160	0.	6.8	104.0	*	1	2135	260	0.	6.8	104.0
1	0500	61	0.	3.1	101.5	*	1	1320	161	0.	6.8	104.0	*	1	2140	261	0.	6.8	104.0
1	0505	62	0.	3.4	101.7	*	1	1325	162	0.	6.8	104.0	*	1	2145	262	0.	6.8	104.0
1	0510	63	0.	3.7	101.8	*	1	1330	163	0.	6.8	104.0	*	1	2150	263	0.	6.8	104.0
1	0515	64	0.	4.0	102.0	*	1	1335	164	0.	6.8	104.0	*	1	2155	264	0.	6.8	104.0
1	0520	65	0.	4.2	102.1	*	1	1340	165	0.	6.8	104.0	*	1	2200	265	0.	6.8	104.0

1	0525	66	0.	4.5	102.2 *	1	1345	166	0.	6.8	104.0 *	1	2205	266	0.	6.8	104.0
1	0530	67	0.	4.7	102.4 *	1	1350	167	0.	6.8	104.0 *	1	2210	267	0.	6.8	104.0
1	0535	68	0.	4.9	102.5 *	1	1355	168	0.	6.8	104.0 *	1	2215	268	0.	6.8	104.0
1	0540	69	0.	5.1	102.6 *	1	1400	169	0.	6.8	104.0 *	1	2220	269	0.	6.8	104.0
1	0545	70	0.	5.3	102.7 *	1	1405	170	0.	6.8	104.0 *	1	2225	270	0.	6.8	104.0
1	0550	71	0.	5.5	102.8 *	1	1410	171	0.	6.8	104.0 *	1	2230	271	0.	6.8	104.0
1	0555	72	0.	5.7	102.8 *	1	1415	172	0.	6.8	104.0 *	1	2235	272	0.	6.8	104.0
1	0600	73	0.	5.8	102.9 *	1	1420	173	0.	6.8	104.0 *	1	2240	273	0.	6.8	104.0
1	0605	74	0.	6.0	103.0 *	1	1425	174	0.	6.8	104.0 *	1	2245	274	0.	6.8	104.0
1	0610	75	0.	6.1	103.1 *	1	1430	175	0.	6.8	104.0 *	1	2250	275	0.	6.8	104.0
1	0615	76	0.	6.2	103.3 *	1	1435	176	0.	6.8	104.0 *	1	2255	276	0.	6.8	104.0
1	0620	77	0.	6.3	103.4 *	1	1440	177	0.	6.8	104.0 *	1	2300	277	0.	6.8	104.0
1	0625	78	0.	6.4	103.5 *	1	1445	178	0.	6.8	104.0 *	1	2305	278	0.	6.8	104.0
1	0630	79	0.	6.5	103.7 *	1	1450	179	0.	6.8	104.0 *	1	2310	279	0.	6.8	104.0
1	0635	80	0.	6.6	103.8 *	1	1455	180	0.	6.8	104.0 *	1	2315	280	0.	6.8	104.0
1	0640	81	0.	6.7	103.9 *	1	1500	181	0.	6.8	104.0 *	1	2320	281	0.	6.8	104.0
1	0645	82	0.	6.8	104.0 *	1	1505	182	0.	6.8	104.0 *	1	2325	282	0.	6.8	104.0
1	0650	83	6.	6.9	104.0 *	1	1510	183	0.	6.8	104.0 *	1	2330	283	0.	6.8	104.0
1	0655	84	9.	6.9	104.0 *	1	1515	184	0.	6.8	104.0 *	1	2335	284	0.	6.8	104.0
1	0700	85	9.	6.9	104.0 *	1	1520	185	0.	6.8	104.0 *	1	2340	285	0.	6.8	104.0
1	0705	86	9.	6.9	104.0 *	1	1525	186	0.	6.8	104.0 *	1	2345	286	0.	6.8	104.0
1	0710	87	8.	6.9	104.0 *	1	1530	187	0.	6.8	104.0 *	1	2350	287	0.	6.8	104.0
1	0715	88	7.	6.9	104.0 *	1	1535	188	0.	6.8	104.0 *	1	2355	288	0.	6.8	104.0
1	0720	89	7.	6.9	104.0 *	1	1540	189	0.	6.8	104.0 *	2	0000	289	0.	6.8	104.0
1	0725	90	6.	6.9	104.0 *	1	1545	190	0.	6.8	104.0 *	2	0005	290	0.	6.8	104.0
1	0730	91	6.	6.9	104.0 *	1	1550	191	0.	6.8	104.0 *	2	0010	291	0.	6.8	104.0
1	0735	92	6.	6.9	104.0 *	1	1555	192	0.	6.8	104.0 *	2	0015	292	0.	6.8	104.0
1	0740	93	5.	6.9	104.0 *	1	1600	193	0.	6.8	104.0 *	2	0020	293	0.	6.8	104.0
1	0745	94	5.	6.9	104.0 *	1	1605	194	0.	6.8	104.0 *	2	0025	294	0.	6.8	104.0
1	0750	95	4.	6.9	104.0 *	1	1610	195	0.	6.8	104.0 *	2	0030	295	0.	6.8	104.0
1	0755	96	4.	6.8	104.0 *	1	1615	196	0.	6.8	104.0 *	2	0035	296	0.	6.8	104.0
1	0800	97	4.	6.8	104.0 *	1	1620	197	0.	6.8	104.0 *	2	0040	297	0.	6.8	104.0
1	0805	98	4.	6.8	104.0 *	1	1625	198	0.	6.8	104.0 *	2	0045	298	0.	6.8	104.0
1	0810	99	3.	6.8	104.0 *	1	1630	199	0.	6.8	104.0 *	2	0050	299	0.	6.8	104.0
1	0815	100	3.	6.8	104.0 *	1	1635	200	0.	6.8	104.0 *	2	0055	300	0.	6.8	104.0
					*						*						

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)					
		(CFS)				
9.	6.92		2.	0.	0.	0.
		(INCHES)	.091	.091	.091	.091
		(AC-FT)	1.	1.	1.	1.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
(AC-FT)	(HR)				
7.	6.92	7.	6.	5.	5.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
(FEET)	(HR)				
104.04	6.92	104.01	103.26	103.14	103.14

CUMULATIVE AREA = .20 SQ MI

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          *            *
157 KK    *     COMBI  *     NEALL2F
          *            *
          **************
                         COMBINE HYDROGRAPHS E & F WITH PREVIOUS

160 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

159 HC          HYDROGRAPH COMBINATION
                      ICOMP          3  NUMBER OF HYDROGRAPHS TO COMBINE

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                                    HYDROGRAPH AT STATION    COMBI
                                         SUM OF  3 HYDROGRAPHS

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DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	183.	1		1230	151	3.	1		1845	226	0.
1		0005	2	0.	1		0620	77	171.	1		1235	152	3.	1		1850	227	0.
1		0010	3	0.	1		0625	78	159.	1		1240	153	3.	1		1855	228	0.
1		0015	4	0.	1		0630	79	148.	1		1245	154	3.	1		1900	229	0.
1		0020	5	0.	1		0635	80	138.	1		1250	155	2.	1		1905	230	0.
1		0025	6	0.	1		0640	81	128.	1		1255	156	2.	1		1910	231	0.
1		0030	7	0.	1		0645	82	119.	1		1300	157	1.	1		1915	232	0.
1		0035	8	0.	1		0650	83	117.	1		1305	158	1.	1		1920	233	0.
1		0040	9	0.	1		0655	84	114.	1		1310	159	1.	1		1925	234	0.
1		0045	10	0.	1		0700	85	108.	1		1315	160	1.	1		1930	235	0.
1		0050	11	0.	1		0705	86	102.	1		1320	161	0.	1		1935	236	0.
1		0055	12	0.	1		0710	87	97.	1		1325	162	0.	1		1940	237	0.
1		0100	13	0.	1		0715	88	91.	1		1330	163	0.	1		1945	238	0.
1		0105	14	0.	1		0720	89	85.	1		1335	164	0.	1		1950	239	0.
1		0110	15	0.	1		0725	90	79.	1		1340	165	0.	1		1955	240	0.
1		0115	16	0.	1		0730	91	74.	1		1345	166	0.	1		2000	241	0.
1		0120	17	0.	1		0735	92	69.	1		1350	167	0.	1		2005	242	0.
1		0125	18	0.	1		0740	93	65.	1		1355	168	0.	1		2010	243	0.
1		0130	19	0.	1		0745	94	69.	1		1400	169	0.	1		2015	244	0.
1		0135	20	0.	1		0750	95	77.	1		1405	170	0.	1		2020	245	0.
1		0140	21	0.	1		0755	96	78.	1		1410	171	0.	1		2025	246	0.
1		0145	22	0.	1		0800	97	77.	1		1415	172	0.	1		2030	247	0.
1		0150	23	0.	1		0805	98	74.	1		1420	173	0.	1		2035	248	0.
1		0155	24	0.	1		0810	99	70.	1		1425	174	0.	1		2040	249	0.
1		0200	25	0.	1		0815	100	66.	1		1430	175	0.	1		2045	250	0.
1		0205	26	0.	1		0820	101	62.	1		1435	176	0.	1		2050	251	0.
1		0210	27	0.	1		0825	102	59.	1		1440	177	0.	1		2055	252	0.
1		0215	28	0.	1		0830	103	55.	1		1445	178	0.	1		2100	253	0.
1		0220	29	0.	1		0835	104	52.	1		1450	179	0.	1		2105	254	0.
1		0225	30	0.	1		0840	105	49.	1		1455	180	0.	1		2110	255	0.

1	0230	31	0.	*	1	0845	106	45.	*	1	1500	181	0.	*	1	2115	256	0.
1	0235	32	0.	*	1	0850	107	43.	*	1	1505	182	0.	*	1	2120	257	0.
1	0240	33	0.	*	1	0855	108	40.	*	1	1510	183	0.	*	1	2125	258	0.
1	0245	34	0.	*	1	0900	109	37.	*	1	1515	184	0.	*	1	2130	259	0.
1	0250	35	1.	*	1	0905	110	35.	*	1	1520	185	0.	*	1	2135	260	0.
1	0255	36	1.	*	1	0910	111	33.	*	1	1525	186	0.	*	1	2140	261	0.
1	0300	37	1.	*	1	0915	112	32.	*	1	1530	187	0.	*	1	2145	262	0.
1	0305	38	1.	*	1	0920	113	30.	*	1	1535	188	0.	*	1	2150	263	0.
1	0310	39	1.	*	1	0925	114	28.	*	1	1540	189	0.	*	1	2155	264	0.
1	0315	40	1.	*	1	0930	115	27.	*	1	1545	190	0.	*	1	2200	265	0.
1	0320	41	2.	*	1	0935	116	25.	*	1	1550	191	0.	*	1	2205	266	0.
1	0325	42	2.	*	1	0940	117	24.	*	1	1555	192	0.	*	1	2210	267	0.
1	0330	43	2.	*	1	0945	118	23.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	2.	*	1	0950	119	21.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	2.	*	1	0955	120	20.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	2.	*	1	1000	121	19.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	2.	*	1	1005	122	18.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	2.	*	1	1010	123	17.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	2.	*	1	1015	124	16.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	2.	*	1	1020	125	15.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	3.	*	1	1025	126	14.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	3.	*	1	1030	127	13.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	3.	*	1	1035	128	12.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	3.	*	1	1040	129	12.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	4.	*	1	1045	130	11.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	7.	*	1	1050	131	10.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	13.	*	1	1055	132	9.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	25.	*	1	1100	133	9.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	43.	*	1	1105	134	8.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	69.	*	1	1110	135	8.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	102.	*	1	1115	136	7.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	142.	*	1	1120	137	7.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	178.	*	1	1125	138	6.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	208.	*	1	1130	139	6.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	232.	*	1	1135	140	6.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	250.	*	1	1140	141	6.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	260.	*	1	1145	142	6.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	264.	*	1	1150	143	5.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	262.	*	1	1155	144	5.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	256.	*	1	1200	145	5.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	246.	*	1	1205	146	5.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	234.	*	1	1210	147	4.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	221.	*	1	1215	148	4.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	208.	*	1	1220	149	4.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	195.	*	1	1225	150	4.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
264.	5.58		95.	24.	24.	24.
		(INCHES)	.355	.366	.366	.366
		(AC-FT)	47.	49.	49.	49.

CUMULATIVE AREA = 2.48 SQ MI

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          *            *
161 KK    *    REMF    *
          *            *
          **************
                        DIVERT FLOW TO 115TH STREET SOUTH FROM F

166 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          2  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL         0.  HYDROGRAPH PLOT SCALE

   DT           DIVERSION
                     ISTAD       DIVF   DIVERSION HYDROGRAPH IDENTIFICATION

   DI              INFLOW        .00     12.53     21.41     51.01     99.53    166.81    265.04    402.80    582.53

   DQ        DIVERTED FLOW       .00       .00       .13      2.05      8.89     23.21     61.68    117.16    185.80

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DIVERSION HYDROGRAPH DIVF

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	29.	1		1230	151	0.	1		1845	226	0.
1		0005	2	0.	1		0620	77	25.	1		1235	152	0.	1		1850	227	0.
1		0010	3	0.	1		0625	78	21.	1		1240	153	0.	1		1855	228	0.
1		0015	4	0.	1		0630	79	19.	1		1245	154	0.	1		1900	229	0.
1		0020	5	0.	1		0635	80	17.	1		1250	155	0.	1		1905	230	0.
1		0025	6	0.	1		0640	81	15.	1		1255	156	0.	1		1910	231	0.
1		0030	7	0.	1		0645	82	13.	1		1300	157	0.	1		1915	232	0.
1		0035	8	0.	1		0650	83	13.	1		1305	158	0.	1		1920	233	0.
1		0040	9	0.	1		0655	84	12.	1		1310	159	0.	1		1925	234	0.
1		0045	10	0.	1		0700	85	11.	1		1315	160	0.	1		1930	235	0.
1		0050	11	0.	1		0705	86	9.	1		1320	161	0.	1		1935	236	0.
1		0055	12	0.	1		0710	87	8.	1		1325	162	0.	1		1940	237	0.
1		0100	13	0.	1		0715	88	8.	1		1330	163	0.	1		1945	238	0.
1		0105	14	0.	1		0720	89	7.	1		1335	164	0.	1		1950	239	0.
1		0110	15	0.	1		0725	90	6.	1		1340	165	0.	1		1955	240	0.
1		0115	16	0.	1		0730	91	5.	1		1345	166	0.	1		2000	241	0.
1		0120	17	0.	1		0735	92	5.	1		1350	167	0.	1		2005	242	0.
1		0125	18	0.	1		0740	93	4.	1		1355	168	0.	1		2010	243	0.
1		0130	19	0.	1		0745	94	5.	1		1400	169	0.	1		2015	244	0.
1		0135	20	0.	1		0750	95	6.	1		1405	170	0.	1		2020	245	0.
1		0140	21	0.	1		0755	96	6.	1		1410	171	0.	1		2025	246	0.
1		0145	22	0.	1		0800	97	6.	1		1415	172	0.	1		2030	247	0.
1		0150	23	0.	1		0805	98	5.	1		1420	173	0.	1		2035	248	0.
1		0155	24	0.	1		0810	99	5.	1		1425	174	0.	1		2040	249	0.
1		0200	25	0.	1		0815	100	4.	1		1430	175	0.	1		2045	250	0.
1		0205	26	0.	1		0820	101	4.	1		1435	176	0.	1		2050	251	0.
1		0210	27	0.	1		0825	102	3.	1		1440	177	0.	1		2055	252	0.

1	0215	28	0.	*	1	0830	103	3.	*	1	1445	178	0.	*	1	2100	253	0.
1	0220	29	0.	*	1	0835	104	2.	*	1	1450	179	0.	*	1	2105	254	0.
1	0225	30	0.	*	1	0840	105	2.	*	1	1455	180	0.	*	1	2110	255	0.
1	0230	31	0.	*	1	0845	106	2.	*	1	1500	181	0.	*	1	2115	256	0.
1	0235	32	0.	*	1	0850	107	2.	*	1	1505	182	0.	*	1	2120	257	0.
1	0240	33	0.	*	1	0855	108	1.	*	1	1510	183	0.	*	1	2125	258	0.
1	0245	34	0.	*	1	0900	109	1.	*	1	1515	184	0.	*	1	2130	259	0.
1	0250	35	0.	*	1	0905	110	1.	*	1	1520	185	0.	*	1	2135	260	0.
1	0255	36	0.	*	1	0910	111	1.	*	1	1525	186	0.	*	1	2140	261	0.
1	0300	37	0.	*	1	0915	112	1.	*	1	1530	187	0.	*	1	2145	262	0.
1	0305	38	0.	*	1	0920	113	1.	*	1	1535	188	0.	*	1	2150	263	0.
1	0310	39	0.	*	1	0925	114	1.	*	1	1540	189	0.	*	1	2155	264	0.
1	0315	40	0.	*	1	0930	115	0.	*	1	1545	190	0.	*	1	2200	265	0.
1	0320	41	0.	*	1	0935	116	0.	*	1	1550	191	0.	*	1	2205	266	0.
1	0325	42	0.	*	1	0940	117	0.	*	1	1555	192	0.	*	1	2210	267	0.
1	0330	43	0.	*	1	0945	118	0.	*	1	1600	193	0.	*	1	2215	268	0.
1	0335	44	0.	*	1	0950	119	0.	*	1	1605	194	0.	*	1	2220	269	0.
1	0340	45	0.	*	1	0955	120	0.	*	1	1610	195	0.	*	1	2225	270	0.
1	0345	46	0.	*	1	1000	121	0.	*	1	1615	196	0.	*	1	2230	271	0.
1	0350	47	0.	*	1	1005	122	0.	*	1	1620	197	0.	*	1	2235	272	0.
1	0355	48	0.	*	1	1010	123	0.	*	1	1625	198	0.	*	1	2240	273	0.
1	0400	49	0.	*	1	1015	124	0.	*	1	1630	199	0.	*	1	2245	274	0.
1	0405	50	0.	*	1	1020	125	0.	*	1	1635	200	0.	*	1	2250	275	0.
1	0410	51	0.	*	1	1025	126	0.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	0.	*	1	1030	127	0.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	0.	*	1	1035	128	0.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	0.	*	1	1040	129	0.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	0.	*	1	1045	130	0.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	0.	*	1	1050	131	0.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	0.	*	1	1055	132	0.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	0.	*	1	1100	133	0.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	2.	*	1	1105	134	0.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	5.	*	1	1110	135	0.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	9.	*	1	1115	136	0.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	18.	*	1	1120	137	0.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	28.	*	1	1125	138	0.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	40.	*	1	1130	139	0.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	49.	*	1	1135	140	0.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	56.	*	1	1140	141	0.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	60.	*	1	1145	142	0.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	61.	*	1	1150	143	0.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	60.	*	1	1155	144	0.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	58.	*	1	1200	145	0.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	54.	*	1	1205	146	0.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	49.	*	1	1210	147	0.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	44.	*	1	1215	148	0.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	39.	*	1	1220	149	0.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	34.	*	1	1225	150	0.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
61.	5.58		13.	3.	3.	3.
		(INCHES)	.050	.050	.050	.050
		(AC-FT)	7.	7.	7.	7.

CUMULATIVE AREA = 2.48 SQ MI

HYDROGRAPH AT STATION REMF

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0615	76	153.	1		1230	151	3.	1		1845	226	0.
1		0005	2	0.	1		0620	77	146.	1		1235	152	3.	1		1850	227	0.
1		0010	3	0.	1		0625	78	137.	1		1240	153	3.	1		1855	228	0.
1		0015	4	0.	1		0630	79	129.	1		1245	154	3.	1		1900	229	0.
1		0020	5	0.	1		0635	80	121.	1		1250	155	2.	1		1905	230	0.
1		0025	6	0.	1		0640	81	113.	1		1255	156	2.	1		1910	231	0.
1		0030	7	0.	1		0645	82	106.	1		1300	157	1.	1		1915	232	0.
1		0035	8	0.	1		0650	83	104.	1		1305	158	1.	1		1920	233	0.
1		0040	9	0.	1		0655	84	102.	1		1310	159	1.	1		1925	234	0.
1		0045	10	0.	1		0700	85	97.	1		1315	160	1.	1		1930	235	0.
1		0050	11	0.	1		0705	86	93.	1		1320	161	0.	1		1935	236	0.
1		0055	12	0.	1		0710	87	88.	1		1325	162	0.	1		1940	237	0.
1		0100	13	0.	1		0715	88	83.	1		1330	163	0.	1		1945	238	0.
1		0105	14	0.	1		0720	89	78.	1		1335	164	0.	1		1950	239	0.
1		0110	15	0.	1		0725	90	73.	1		1340	165	0.	1		1955	240	0.
1		0115	16	0.	1		0730	91	69.	1		1345	166	0.	1		2000	241	0.
1		0120	17	0.	1		0735	92	64.	1		1350	167	0.	1		2005	242	0.
1		0125	18	0.	1		0740	93	61.	1		1355	168	0.	1		2010	243	0.
1		0130	19	0.	1		0745	94	64.	1		1400	169	0.	1		2015	244	0.
1		0135	20	0.	1		0750	95	71.	1		1405	170	0.	1		2020	245	0.
1		0140	21	0.	1		0755	96	72.	1		1410	171	0.	1		2025	246	0.
1		0145	22	0.	1		0800	97	71.	1		1415	172	0.	1		2030	247	0.
1		0150	23	0.	1		0805	98	69.	1		1420	173	0.	1		2035	248	0.
1		0155	24	0.	1		0810	99	65.	1		1425	174	0.	1		2040	249	0.
1		0200	25	0.	1		0815	100	62.	1		1430	175	0.	1		2045	250	0.
1		0205	26	0.	1		0820	101	59.	1		1435	176	0.	1		2050	251	0.
1		0210	27	0.	1		0825	102	56.	1		1440	177	0.	1		2055	252	0.
1		0215	28	0.	1		0830	103	53.	1		1445	178	0.	1		2100	253	0.
1		0220	29	0.	1		0835	104	50.	1		1450	179	0.	1		2105	254	0.
1		0225	30	0.	1		0840	105	47.	1		1455	180	0.	1		2110	255	0.
1		0230	31	0.	1		0845	106	44.	1		1500	181	0.	1		2115	256	0.
1		0235	32	0.	1		0850	107	41.	1		1505	182	0.	1		2120	257	0.
1		0240	33	0.	1		0855	108	39.	1		1510	183	0.	1		2125	258	0.
1		0245	34	0.	1		0900	109	36.	1		1515	184	0.	1		2130	259	0.
1		0250	35	1.	1		0905	110	34.	1		1520	185	0.	1		2135	260	0.
1		0255	36	1.	1		0910	111	33.	1		1525	186	0.	1		2140	261	0.
1		0300	37	1.	1		0915	112	31.	1		1530	187	0.	1		2145	262	0.
1		0305	38	1.	1		0920	113	29.	1		1535	188	0.	1		2150	263	0.
1		0310	39	1.	1		0925	114	28.	1		1540	189	0.	1		2155	264	0.
1		0315	40	1.	1		0930	115	26.	1		1545	190	0.	1		2200	265	0.
1		0320	41	2.	1		0935	116	25.	1		1550	191	0.	1		2205	266	0.
1		0325	42	2.	1		0940	117	24.	1		1555	192	0.	1		2210	267	0.
1		0330	43	2.	1		0945	118	22.	1		1600	193	0.	1		2215	268	0.
1		0335	44	2.	1		0950	119	21.	1		1605	194	0.	1		2220	269	0.
1		0340	45	2.	1		0955	120	20.	1		1610	195	0.	1		2225	270	0.
1		0345	46	2.	1		1000	121	19.	1		1615	196	0.	1		2230	271	0.
1		0350	47	2.	1		1005	122	18.	1		1620	197	0.	1		2235	272	0.
1		0355	48	2.	1		1010	123	17.	1		1625	198	0.	1		2240	273	0.
1		0400	49	2.	1		1015	124	16.	1		1630	199	0.	1		2245	274	0.
1		0405	50	2.	1		1020	125	15.	1		1635	200	0.	1		2250	275	0.

1	0410	51	3.	*	1	1025	126	14.	*	1	1640	201	0.	*	1	2255	276	0.
1	0415	52	3.	*	1	1030	127	13.	*	1	1645	202	0.	*	1	2300	277	0.
1	0420	53	3.	*	1	1035	128	12.	*	1	1650	203	0.	*	1	2305	278	0.
1	0425	54	3.	*	1	1040	129	12.	*	1	1655	204	0.	*	1	2310	279	0.
1	0430	55	4.	*	1	1045	130	11.	*	1	1700	205	0.	*	1	2315	280	0.
1	0435	56	7.	*	1	1050	131	10.	*	1	1705	206	0.	*	1	2320	281	0.
1	0440	57	13.	*	1	1055	132	9.	*	1	1710	207	0.	*	1	2325	282	0.
1	0445	58	24.	*	1	1100	133	9.	*	1	1715	208	0.	*	1	2330	283	0.
1	0450	59	42.	*	1	1105	134	8.	*	1	1720	209	0.	*	1	2335	284	0.
1	0455	60	65.	*	1	1110	135	8.	*	1	1725	210	0.	*	1	2340	285	0.
1	0500	61	93.	*	1	1115	136	7.	*	1	1730	211	0.	*	1	2345	286	0.
1	0505	62	124.	*	1	1120	137	7.	*	1	1735	212	0.	*	1	2350	287	0.
1	0510	63	150.	*	1	1125	138	6.	*	1	1740	213	0.	*	1	2355	288	0.
1	0515	64	169.	*	1	1130	139	6.	*	1	1745	214	0.	*	2	0000	289	0.
1	0520	65	184.	*	1	1135	140	6.	*	1	1750	215	0.	*	2	0005	290	0.
1	0525	66	194.	*	1	1140	141	6.	*	1	1755	216	0.	*	2	0010	291	0.
1	0530	67	200.	*	1	1145	142	6.	*	1	1800	217	0.	*	2	0015	292	0.
1	0535	68	203.	*	1	1150	143	5.	*	1	1805	218	0.	*	2	0020	293	0.
1	0540	69	201.	*	1	1155	144	5.	*	1	1810	219	0.	*	2	0025	294	0.
1	0545	70	198.	*	1	1200	145	5.	*	1	1815	220	0.	*	2	0030	295	0.
1	0550	71	192.	*	1	1205	146	5.	*	1	1820	221	0.	*	2	0035	296	0.
1	0555	72	184.	*	1	1210	147	4.	*	1	1825	222	0.	*	2	0040	297	0.
1	0600	73	176.	*	1	1215	148	4.	*	1	1830	223	0.	*	2	0045	298	0.
1	0605	74	169.	*	1	1220	149	4.	*	1	1835	224	0.	*	2	0050	299	0.
1	0610	75	161.	*	1	1225	150	4.	*	1	1840	225	0.	*	2	0055	300	0.
				*					*					*				

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
203.	5.58		82.	21.	20.	20.
		(INCHES)	.305	.317	.317	.317
		(AC-FT)	40.	42.	42.	42.

CUMULATIVE AREA = 2.48 SQ MI

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              *            *
167 KK        *    RTEF2   *     G
              *            *
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ROUTE COMBINED HYDROGRAPH TO SUB BASIN G

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173 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

              HYDROGRAPH ROUTING DATA

169 RS          STORAGE ROUTING
                      NSTPS          2  NUMBER OF SUBREACHES
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ITYP	FLOW	TYPE OF INITIAL CONDITION
RSVRIC	.00	INITIAL CONDITION
X	.00	WORKING R AND D COEFFICIENT

170 RC NORMAL DEPTH CHANNEL

ANL	.025	LEFT OVERBANK N-VALUE
ANCH	.015	MAIN CHANNEL N-VALUE
ANR	.025	RIGHT OVERBANK N-VALUE
RLNTH	4200.	REACH LENGTH
SEL	.0026	ENERGY SLOPE
ELMAX	103.8	MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

CROSS-SECTION DATA

		--- LEFT OVERBANK ---		+ ------ MAIN CHANNEL		------- +	--- RIGHT OVERBANK ---		
172 RY	ELEVATION	102.00	101.00	100.00	102.00	101.00	101.88	102.76	103.76
171 RX	DISTANCE	100.00	150.00	152.00	156.00	158.00	202.00	246.00	248.00

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COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	.01	.03	.07	.12	.19	.44	1.09	2.12	3.55
OUTFLOW	.00	.06	.40	1.18	2.54	4.61	6.14	18.27	43.43	85.39
ELEVATION	100.00	100.20	100.40	100.59	100.79	100.99	101.19	101.39	101.58	101.78
STORAGE	5.37	7.51	9.83	12.35	15.05	17.84	20.63	23.44	26.25	29.07
OUTFLOW	152.30	254.13	380.14	529.48	702.59	903.68	1126.86	1370.95	1635.06	1918.42
ELEVATION	101.98	102.18	102.37	102.57	102.77	102.97	103.17	103.36	103.56	103.76

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HYDROGRAPH AT STATION RTEF2

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DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	100.0	*	1		0820	101	68.	1.5	101.7	*	1		1640	201	0.	.0	100.2
		0005	2	0.	.0	100.0	*	1		0825	102	67.	1.5	101.7	*	1		1645	202	0.	.0	100.2
		0010	3	0.	.0	100.0	*	1		0830	103	65.	1.4	101.7	*	1		1650	203	0.	.0	100.2
		0015	4	0.	.0	100.0	*	1		0835	104	63.	1.4	101.7	*	1		1655	204	0.	.0	100.2
		0020	5	0.	.0	100.0	*	1		0840	105	60.	1.3	101.7	*	1		1700	205	0.	.0	100.1
		0025	6	0.	.0	100.0	*	1		0845	106	57.	1.3	101.6	*	1		1705	206	0.	.0	100.1
		0030	7	0.	.0	100.0	*	1		0850	107	55.	1.3	101.6	*	1		1710	207	0.	.0	100.1
		0035	8	0.	.0	100.0	*	1		0855	108	52.	1.2	101.6	*	1		1715	208	0.	.0	100.1
1		0040	9	0.	.0	100.0	*	1		0900	109	49.	1.2	101.6	*	1		1720	209	0.	.0	100.1
1		0045	10	0.	.0	100.0	*	1		0905	110	47.	1.1	101.6	*	1		1725	210	0.	.0	100.1
1		0050	11	0.	.0	100.0	*	1		0910	111	44.	1.1	101.6	*	1		1730	211	0.	.0	100.1
1		0055	12	0.	.0	100.0	*	1		0915	112	42.	1.0	101.6	*	1		1735	212	0.	.0	100.1
1		0100	13	0.	.0	100.0	*	1		0920	113	40.	1.0	101.6	*	1		1740	213	0.	.0	100.1
1		0105	14	0.	.0	100.0	*	1		0925	114	39.	1.0	101.5	*	1		1745	214	0.	.0	100.1
1		0110	15	0.	.0	100.0	*	1		0930	115	37.	.9	101.5	*	1		1750	215	0.	.0	100.1
1		0115	16	0.	.0	100.0	*	1		0935	116	35.	.9	101.5	*	1		1755	216	0.	.0	100.1
1		0120	17	0.	.0	100.0	*	1		0940	117	33.	.9	101.5	*	1		1800	217	0.	.0	100.1
1		0125	18	0.	.0	100.0	*	1		0945	118	32.	.8	101.5	*	1		1805	218	0.	.0	100.1
1		0130	19	0.	.0	100.0	*	1		0950	119	30.	.8	101.5	*	1		1810	219	0.	.0	100.1
1		0135	20	0.	.0	100.0	*	1		0955	120	28.	.8	101.5	*	1		1815	220	0.	.0	100.1
1		0140	21	0.	.0	100.0	*	1		1000	121	27.	.7	101.5	*	1		1820	221	0.	.0	100.1
1		0145	22	0.	.0	100.0	*	1		1005	122	26.	.7	101.4	*	1		1825	222	0.	.0	100.1

1	0150	23	0.	.0	100.0	*	1	1010	123	24.	.7	101.4	*	1	1830	223	0.	.0	100.1
1	0155	24	0.	.0	100.0	*	1	1015	124	23.	.6	101.4	*	1	1835	224	0.	.0	100.1
1	0200	25	0.	.0	100.0	*	1	1020	125	22.	.6	101.4	*	1	1840	225	0.	.0	100.1
1	0205	26	0.	.0	100.0	*	1	1025	126	20.	.6	101.4	*	1	1845	226	0.	.0	100.1
1	0210	27	0.	.0	100.0	*	1	1030	127	19.	.6	101.4	*	1	1850	227	0.	.0	100.1
1	0215	28	0.	.0	100.0	*	1	1035	128	18.	.5	101.4	*	1	1855	228	0.	.0	100.1
1	0220	29	0.	.0	100.0	*	1	1040	129	18.	.5	101.4	*	1	1900	229	0.	.0	100.1
1	0225	30	0.	.0	100.0	*	1	1045	130	17.	.5	101.4	*	1	1905	230	0.	.0	100.1
1	0230	31	0.	.0	100.0	*	1	1050	131	16.	.5	101.3	*	1	1910	231	0.	.0	100.0
1	0235	32	0.	.0	100.0	*	1	1055	132	15.	.5	101.3	*	1	1915	232	0.	.0	100.0
1	0240	33	0.	.0	100.0	*	1	1100	133	15.	.4	101.3	*	1	1920	233	0.	.0	100.0
1	0245	34	0.	.0	100.1	*	1	1105	134	14.	.4	101.3	*	1	1925	234	0.	.0	100.0
1	0250	35	0.	.0	100.1	*	1	1110	135	13.	.4	101.3	*	1	1930	235	0.	.0	100.0
1	0255	36	0.	.0	100.2	*	1	1115	136	12.	.4	101.3	*	1	1935	236	0.	.0	100.0
1	0300	37	0.	.0	100.2	*	1	1120	137	12.	.4	101.3	*	1	1940	237	0.	.0	100.0
1	0305	38	0.	.0	100.3	*	1	1125	138	11.	.3	101.3	*	1	1945	238	0.	.0	100.0
1	0310	39	0.	.0	100.3	*	1	1130	139	10.	.3	101.3	*	1	1950	239	0.	.0	100.0
1	0315	40	0.	.0	100.4	*	1	1135	140	10.	.3	101.2	*	1	1955	240	0.	.0	100.0
1	0320	41	1.	.0	100.4	*	1	1140	141	9.	.3	101.2	*	1	2000	241	0.	.0	100.0
1	0325	42	1.	.0	100.5	*	1	1145	142	9.	.3	101.2	*	1	2005	242	0.	.0	100.0
1	0330	43	1.	.0	100.5	*	1	1150	143	8.	.3	101.2	*	1	2010	243	0.	.0	100.0
1	0335	44	1.	.0	100.5	*	1	1155	144	8.	.3	101.2	*	1	2015	244	0.	.0	100.0
1	0340	45	1.	.0	100.6	*	1	1200	145	7.	.3	101.2	*	1	2020	245	0.	.0	100.0
1	0345	46	1.	.0	100.6	*	1	1205	146	7.	.2	101.2	*	1	2025	246	0.	.0	100.0
1	0350	47	1.	.0	100.6	*	1	1210	147	7.	.2	101.2	*	1	2030	247	0.	.0	100.0
1	0355	48	1.	.0	100.6	*	1	1215	148	7.	.2	101.2	*	1	2035	248	0.	.0	100.0
1	0400	49	2.	.0	100.7	*	1	1220	149	6.	.2	101.2	*	1	2040	249	0.	.0	100.0
1	0405	50	2.	.0	100.7	*	1	1225	150	6.	.2	101.2	*	1	2045	250	0.	.0	100.0
1	0410	51	2.	.0	100.7	*	1	1230	151	6.	.2	101.2	*	1	2050	251	0.	.0	100.0
1	0415	52	2.	.0	100.7	*	1	1235	152	6.	.2	101.2	*	1	2055	252	0.	.0	100.0
1	0420	53	2.	.1	100.7	*	1	1240	153	6.	.2	101.2	*	1	2100	253	0.	.0	100.0
1	0425	54	2.	.1	100.7	*	1	1245	154	6.	.2	101.1	*	1	2105	254	0.	.0	100.0
1	0430	55	2.	.1	100.7	*	1	1250	155	6.	.2	101.1	*	1	2110	255	0.	.0	100.0
1	0435	56	3.	.1	100.8	*	1	1255	156	6.	.2	101.1	*	1	2115	256	0.	.0	100.0
1	0440	57	3.	.1	100.8	*	1	1300	157	5.	.2	101.1	*	1	2120	257	0.	.0	100.0
1	0445	58	4.	.1	100.9	*	1	1305	158	5.	.1	101.1	*	1	2125	258	0.	.0	100.0
1	0450	59	5.	.1	101.0	*	1	1310	159	5.	.1	101.0	*	1	2130	259	0.	.0	100.0
1	0455	60	6.	.2	101.1	*	1	1315	160	5.	.1	101.0	*	1	2135	260	0.	.0	100.0
1	0500	61	11.	.3	101.3	*	1	1320	161	4.	.1	100.9	*	1	2140	261	0.	.0	100.0
1	0505	62	20.	.6	101.4	*	1	1325	162	3.	.1	100.8	*	1	2145	262	0.	.0	100.0
1	0510	63	35.	.9	101.5	*	1	1330	163	2.	.1	100.7	*	1	2150	263	0.	.0	100.0
1	0515	64	56.	1.3	101.6	*	1	1335	164	2.	.0	100.7	*	1	2155	264	0.	.0	100.0
1	0520	65	81.	1.7	101.8	*	1	1340	165	1.	.0	100.6	*	1	2200	265	0.	.0	100.0
1	0525	66	108.	2.1	101.8	*	1	1345	166	1.	.0	100.6	*	1	2205	266	0.	.0	100.0
1	0530	67	133.	2.4	101.9	*	1	1350	167	1.	.0	100.5	*	1	2210	267	0.	.0	100.0
1	0535	68	154.	2.7	102.0	*	1	1355	168	1.	.0	100.5	*	1	2215	268	0.	.0	100.0
1	0540	69	174.	2.9	102.0	*	1	1400	169	1.	.0	100.5	*	1	2220	269	0.	.0	100.0
1	0545	70	185.	3.0	102.0	*	1	1405	170	1.	.0	100.5	*	1	2225	270	0.	.0	100.0
1	0550	71	191.	3.1	102.1	*	1	1410	171	1.	.0	100.4	*	1	2230	271	0.	.0	100.0
1	0555	72	193.	3.1	102.1	*	1	1415	172	0.	.0	100.4	*	1	2235	272	0.	.0	100.0
1	0600	73	191.	3.1	102.1	*	1	1420	173	0.	.0	100.4	*	1	2240	273	0.	.0	100.0
1	0605	74	187.	3.1	102.0	*	1	1425	174	0.	.0	100.4	*	1	2245	274	0.	.0	100.0
1	0610	75	181.	3.0	102.0	*	1	1430	175	0.	.0	100.4	*	1	2250	275	0.	.0	100.0
1	0615	76	175.	2.9	102.0	*	1	1435	176	0.	.0	100.3	*	1	2255	276	0.	.0	100.0
1	0620	77	168.	2.9	102.0	*	1	1440	177	0.	.0	100.3	*	1	2300	277	0.	.0	100.0
1	0625	78	161.	2.8	102.0	*	1	1445	178	0.	.0	100.3	*	1	2305	278	0.	.0	100.0
1	0630	79	154.	2.7	102.0	*	1	1450	179	0.	.0	100.3	*	1	2310	279	0.	.0	100.0
1	0635	80	148.	2.6	102.0	*	1	1455	180	0.	.0	100.3	*	1	2315	280	0.	.0	100.0
1	0640	81	141.	2.5	101.9	*	1	1500	181	0.	.0	100.3	*	1	2320	281	0.	.0	100.0
1	0645	82	134.	2.4	101.9	*	1	1505	182	0.	.0	100.3	*	1	2325	282	0.	.0	100.0

1	0650	83	128.	2.4	101.9 *	1	1510	183	0.	.0	100.3 *	1	2330	283	0.	.0	100.0
1	0655	84	121.	2.3	101.9 *	1	1515	184	0.	.0	100.2 *	1	2335	284	0.	.0	100.0
1	0700	85	116.	2.2	101.9 *	1	1520	185	0.	.0	100.2 *	1	2340	285	0.	.0	100.0
1	0705	86	111.	2.1	101.9 *	1	1525	186	0.	.0	100.2 *	1	2345	286	0.	.0	100.0
1	0710	87	106.	2.1	101.8 *	1	1530	187	0.	.0	100.2 *	1	2350	287	0.	.0	100.0
1	0715	88	102.	2.0	101.8 *	1	1535	188	0.	.0	100.2 *	1	2355	288	0.	.0	100.0
1	0720	89	97.	1.9	101.8 *	1	1540	189	0.	.0	100.2 *	2	0000	289	0.	.0	100.0
1	0725	90	92.	1.9	101.8 *	1	1545	190	0.	.0	100.2 *	2	0005	290	0.	.0	100.0
1	0730	91	88.	1.8	101.8 *	1	1550	191	0.	.0	100.2 *	2	0010	291	0.	.0	100.0
1	0735	92	84.	1.7	101.8 *	1	1555	192	0.	.0	100.2 *	2	0015	292	0.	.0	100.0
1	0740	93	80.	1.7	101.8 *	1	1600	193	0.	.0	100.2 *	2	0020	293	0.	.0	100.0
1	0745	94	77.	1.6	101.7 *	1	1605	194	0.	.0	100.2 *	2	0025	294	0.	.0	100.0
1	0750	95	74.	1.6	101.7 *	1	1610	195	0.	.0	100.2 *	2	0030	295	0.	.0	100.0
1	0755	96	72.	1.5	101.7 *	1	1615	196	0.	.0	100.2 *	2	0035	296	0.	.0	100.0
1	0800	97	71.	1.5	101.7 *	1	1620	197	0.	.0	100.2 *	2	0040	297	0.	.0	100.0
1	0805	98	71.	1.5	101.7 *	1	1625	198	0.	.0	100.2 *	2	0045	298	0.	.0	100.0
1	0810	99	70.	1.5	101.7 *	1	1630	199	0.	.0	100.2 *	2	0050	299	0.	.0	100.0
1	0815	100	70.	1.5	101.7 *	1	1635	200	0.	.0	100.2 *	2	0055	300	0.	.0	100.0
					*						*						

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
193.	5.92		81.	21.	20.	20.
		(INCHES)	.302	.317	.317	.317
		(AC-FT)	40.	42.	42.	42.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
3.	5.92	2.	0.	0.	0.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
102.06	5.92	101.70	100.66	100.63	100.63

CUMULATIVE AREA = 2.48 SQ MI

RUNOFF SUMMARY
FLOW IN CUBIC FEET PER SECOND
TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD 6-HOUR	24-HOUR	72-HOUR	BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
HYDROGRAPH AT	A	119.	4.58	34.	9.	8.	.25		
ROUTED TO	RTEA2	112.	5.00	34.	9.	8.	.25	102.05	5.00
HYDROGRAPH AT	B	62.	5.17	18.	4.	4.	.32		
2 COMBINED AT	AB	172.	5.08	51.	13.	13.	.57		
ROUTED TO	RTEAB	166.	5.42	51.	13.	13.	.57	102.24	5.42
HYDROGRAPH AT	C	184.	4.83	37.	9.	9.	.45		
2 COMBINED AT	ABC	282.	5.17	88.	22.	22.	1.02		
ROUTED TO	RTEAB	266.	5.50	87.	22.	22.	1.02	102.41	5.50
HYDROGRAPH AT	D	217.	5.25	75.	19.	19.	.69		
ROUTED TO	RTED	34.	7.75	6.	2.	2.	.69	104.01	7.75
2 COMBINED AT	ABCD	266.	5.50	93.	24.	23.	1.71		
ROUTED TO	RTEAB	264.	5.58	93.	24.	23.	1.71	102.29	5.58
HYDROGRAPH AT	E	184.	4.75	58.	15.	14.	.57		
ROUTED TO	RTEE	0.	.08	0.	0.	0.	.57	102.94	11.25
DIVERSION TO	DVRTE	0.	.08	0.	0.	0.	.57		

HYDROGRAPH AT								
	REME	0.	.08	0.	0.	0.	.57	
ROUTED TO								
	RTEE2	0.	.08	0.	0.	0.	.57	
								100.00 .00
HYDROGRAPH AT								
	F	49.	4.75	16.	4.	4.	.20	
ROUTED TO								
	RTEF	9.	6.92	2.	0.	0.	.20	
								104.04 6.92
3 COMBINED AT								
	COMBI	264.	5.58	95.	24.	24.	2.48	
DIVERSION TO								
	DIVF	61.	5.58	13.	3.	3.	2.48	
HYDROGRAPH AT								
	REMF	203.	5.58	82.	21.	20.	2.48	
ROUTED TO								
	RTEF2	193.	5.92	81.	21.	20.	2.48	
								102.06 5.92

*** NORMAL END OF HEC-1 ***

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****************************************
*                                      *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)  *
*            SEPTEMBER 1990            *
*             VERSION 4.0              *
*                                      *
*  RUN DATE  10/16/1997  TIME  15:28:45 *
*                                      *
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*                                      *
*    U.S. ARMY CORPS OF ENGINEERS      *
*    HYDROLOGIC ENGINEERING CENTER     *
*          609 SECOND STREET           *
*       DAVIS, CALIFORNIA 95616        *
*           (916) 756-1104             *
*                                      *
****************************************
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X     X  XXXXXXX   XXXXX          X
X     X  X        X     X        XX
X     X  X        X              X
XXXXXXX  XXXX     X       XXXXX  X
X     X  X        X              X
X     X  X        X     X        X
X     X  XXXXXXX   XXXXX         XXX
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THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

MODEL #8 - Phase 3 100-Year

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  1           ID   AVONDALE WETLANDS STUDY PHASE 1 STEVE LEATHERS 11/5/96 model # 8
  2           ID
  3           IT       5 18MAR97    1210    1000
  4           IO       1

  5           KK  RES29S
  6           BA   74.02
  7           ZR    =QI  A=MV100-6 B=RES29S C=FLOW D=18MAR1997 E=5MIN
  8           KO       2

  9           KK   DEVELOPE RAINFALL FOR SUBBASIN A
 10           KM   SUB-BASIN A
 11           KM   6-HOUR RAINFALL, PATTERN NO. 2.13 WAS USED TO FIND TC & R FOR THIS BASIN
 12           KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .970
 13           KM     L = 1.00  Kb = .028  Adj. Slope =   7.0
 14           BA    .253
 15           IN      15
 16           KM   RAINFALL DEPTH OF 3.00 WAS SPACIALLY REDUCED AS SHOWN BY THE PB RECORD
 17           PB   2.911
 18           KM   THE FOLLOWING PC RECORD USED A 6-HOUR STORM WITH A PATTERN No. OF 2.13
 19           PC    .000    .010    .017    .026    .036    .045    .054    .063    .072    .081
 20           PC    .093    .107    .127    .170    .259    .454    .691    .832    .896    .935
 21           PC    .949    .963    .975    .988   1.000
 22           LG    .230    .150   8.500    .059  27.000
 23           UC    .750    .588
 24           UA       0       5      16      30      65      77      84      90      94      97
 25           UA     100
 26           KO       2

 27           KK   COMBINE IMPORTED HYDROGRAPH WITH SUB-BASIN A
 28           KM
 29           HC       2
 30           KO       2

 31           KK   ROUTE COMBINED TO B
 32           KM   CHANNEL ROUTING TO SUB BASIN B NORMAL DEPTH CHANNEL ROUTING
 33           RS       2    FLOW       0       0
 34           RC    .025    .015    .025    2650   .0006     104
 35           RX     100     150     152     156     158     185     212     216
 36           RY     104     101     100     102     101  101.54     101     104
 37           KO       2

 38           KK  RES32E
 39           ZR    =QI  A=MV100-6 B=RES32E C=FLOW D=18MAR1997 E=5MIN
 40           KO       2

 41           KK   B
 42           KM   SUB-BASIN B
 43           KM   6-HOUR RAINFALL, PATTERN NO. 2.00 WAS USED TO FIND TC & R FOR THIS BASIN
 44           KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .975
 45           KM     L = 1.00  Kb = .050  Adj. Slope =   6.0
 46           BA    .319
 47           LG    .500    .240   6.400    .136    .000
 48           UC   1.408   1.038
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49	UA	0	3	5	8	12	20	43	75	90	96

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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  50          UA     100
  51          KO       2

  52          KK  RIDB
  53          KM  COMBINE B WITH OVERFLOW FROM RID
  54          HC       2
  55          KO       2

  56          KK   AB
  57          KM   COMBINE SUB-BASIN B WITH ROUTED SUB-BASIN A
  58          HC       2
  59          KO       2

  60          KK   RTEAB2C
  61          KM   ROUTE COMBINED HYDROGRAPH TO SUB BASIN C
  62          RS       2    FLOW       0       0
  63          RC    .025    .015    .025    2650   .0006     104
  64          RX     100     150     152     156     158     185     212     216
  65          RY     104     101     100     102     101  101.54     101     104
  66          KO       2

  67          KK   C
  68          KM   SUB-BASIN C
  69          KM   6-HOUR RAINFALL, PATTERN NO. 2.00 WAS USED TO FIND TC & R FOR THIS BASIN
  70          KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .975
  71          KM     L = 1.00  Kb = .049  Adj. Slope =   10.0
  72          BA    .450
  73          LG    .500    .150   7.600    .080    .000
  74          UC    .979    .570
  75          UA       0       3       5       8      12      20      43      75      90      96
  76          UA     100
  77          KO       2

  78          KK   ABC
  79          KM   COMBINE SUB-BASIN C WITH MAINSTREAM HYDROGRAPH
  80          HC       2
  81          KO       2

  82          KK   RTEABC2D
  83          KM   ROUTE COMBINED HYDROGRAPH TO SUB BASIN D
  84          RS       3    FLOW       0       0
  85          RC    .025    .015    .025    4150   .0011  104.76
  86          RX     100     150     152     156     158     202     246     250
  87          RY     104     101     100     102     101  101.88  102.76  104.76
  88          KO       2

  89          KK   D
  90          KM   SUB-BASIN D
  91          KM   6-HOUR RAINFALL, PATTERN NO. 2.00 WAS USED TO FIND TC & R FOR THIS BASIN
  92          KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .975
  93          KM     L = 1.80  Kb = .048  Adj. Slope =   5.5
  94          BA    .688
  95          LG    .271    .248   3.600    .149   23.00
  96          UC   1.500   1.149
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97	UA	0	3	5	8	12	20	43	75	90	96

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LINE        ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 98         UA     100
 99         KO       2

100         KK   RTED
101         KM   ROUTE SUB BASIN D THROUGH RESERVOIR TO REMOVE DEVELOPED AREA STORAGE
102         RS       1    STOR       0       0
103         SV       0      10      20      30   35.29   37.65      40
104         SE     100     101     102     103     104   104.5     105
105         SQ       0       0       0       0       0    1500    3000
106         SE     100     101     102     103     104   104.5     105
107         KO       2

108         KK   ABCD
109         KM   COMBINE ROUTED SUB-BASIN D WITH MAINSTREAM
110         HC       2
111         KO       2

112         KK   RTEABCD2F
113         KM   ROUTE COMBINED HYDROGRAPH TO SUB BASIN F
114         RS       1    FLOW       0       0
115         RC    .025    .015    .025     850    .001     105
116         RX      50     150     152     156     158     202     246     250
117         RY     105     101     100     102     101  101.88     101     105
118         KO       2

119         KK   E
120         KM   SUB-BASIN E
121         KM   6-HOUR RAINFALL, PATTERN NO. 2.10 WAS USED TO FIND TC & R FOR THIS BASIN
122         KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .971
123         KM     L = 1.32  Kb = .045  Adj. Slope =  6.9
124         BA    .572
125         LG    .300    .210   6.400    .130  20.000
126         UC   1.375   0.902
127         UA       0       5      16      30      65      77      84      90      94      97
128         UA     100
129         KO       2

130         KK   RTEE
131         KM   ROUTE SUB BASIN E THROUGH RESERVOIR TO REMOVE DEVELOPED AREA STORAGE
132         RS       1    STOR       0       0
133         SV       0      10      20      30   31.47   35.65      40
134         SE     100     101     102     103     104   104.5     105
135         SQ       0       0       0       0       0    1500    3000
136         SE     100     101     102     103     104   104.5     105
137         KO       2

138         KK   REME
139         KM   DIVERT FLOW TO AGUA FRIA RIVER
140         KM   FOR MODELING PURPOSES WE NEED DIVERSION FLOW AT THOMAS RD
141         KM   AND 115TH (SOUTH) TO ACT AS MAINSTREAM.
142         DT   DVRTE
143         DI       0   11.59   29.74   66.65  130.38  217.20  266.94  320.62  378.13
144         DQ       0   11.59   25.84   46.59   85.38  139.94  171.07  204.60  240.47
145         KO       2
```

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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 146          KK   RTEE2F
 147          KM   ROUTE HYDROGRAPH TO SUB BASIN F
 148          RS       4    FLOW       0       0
 149          RC    .025    .015    .025    5300   .0015     103
 150          RX     100     150     152     156     158     185     212     216
 151          RY     102     101     100     102     101  101.54     101     103
 152          KO       2
 153          KK   F
 154          KM   SUB-BASIN F
 155          KM   6-HOUR RAINFALL, PATTERN NO. 2.10 WAS USED TO FIND TC & R FOR THIS BASIN
 156          KM   THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .971
 157          KM     L =  .99  Kb = .051  Adj. Slope =  6.9
 158          BA    .201
 159          LG    .500    .150   7.100    .096    .000
 160          UC   1.208   1.133
 161          UA       0       5      16      30      65      77      84      90      94      97
 162          UA     100
 163          KO       2
 164          KK   RTEF
 165          KM   ROUTE SUB BASIN F THROUGH RESERVOIR TO REMOVE DEVELOPED AREA STORAGE
 166          RS       1    STOR       0       0
 167          SV       0       2       4       6    6.83       8
 168          SE     100     101     102     103     104     105
 169          SQ       0       0       0       0       0     250
 170          SE     100     101     102     103     104     105
 171          KO       2
 172          KK   COMBINEALL2F
 173          KM   COMBINE HYDROGRAPHS E & F WITH PREVIOUS
 174          HC       3
 175          KO       2
 176          KK   REMF
 177          KM   DIVERT FLOW TO 115TH STREET SOUTH FROM F
 178          DT   DIVF
 179          DI       0   12.53   21.41   51.01   99.53  166.81  265.04  402.80  582.53
 180          DQ       0       0     .13    2.05    8.89   23.21   61.68  117.16  185.80
 181          KO       2
 182          KK   RTEF2G
 183          KM   ROUTE COMBINED HYDROGRAPH TO SUB BASIN G
 184          RS       2    FLOW       0       0
 185          RC    .025    .015    .025    4200   .0026  103.76
 186          RX     100     150     152     156     158     202     246     248
 187          RY     103     101     100     102     101  101.88  102.76  103.76
 188          KO       2
 189          ZZ
```

```
****************************************
*                                      *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)  *
*            SEPTEMBER 1990            *
*             VERSION 4.0              *
*                                      *
*  RUN DATE  06/01/1998  TIME  14:47:53 *
*                                      *
****************************************
```

```
****************************************
*                                      *
*    U.S. ARMY CORPS OF ENGINEERS      *
*    HYDROLOGIC ENGINEERING CENTER     *
*          609 SECOND STREET           *
*       DAVIS, CALIFORNIA 95616        *
*           (916) 756-1104             *
*                                      *
****************************************
```

AVONDALE WETLANDS STUDY PHASE 1 STEVE LEATHERS 11/5/96 model # 8

*** ERROR *** SPECIFIED START AND END DATES RESULT IN TOO MANY TIME PERIODS

```
  4 IO          OUTPUT CONTROL VARIABLES
                      IPRNT           1  PRINT CONTROL
                      IPLOT           0  PLOT CONTROL
                      QSCAL          0.  HYDROGRAPH PLOT SCALE

    IT          HYDROGRAPH TIME DATA
                       NMIN           5  MINUTES IN COMPUTATION INTERVAL
                      IDATE     18MAR97  STARTING DATE
                      ITIME        1210  STARTING TIME
                         NQ         300  NUMBER OF HYDROGRAPH ORDINATES
                     NDDATE     19MAR97  ENDING DATE
                     NDTIME        1305  ENDING TIME
                     ICENT          19  CENTURY MARK

                 COMPUTATION INTERVAL     .08 HOURS
                      TOTAL TIME BASE   24.92 HOURS

         ENGLISH UNITS
              DRAINAGE AREA         SQUARE MILES
              PRECIPITATION DEPTH   INCHES
              LENGTH, ELEVATION     FEET
              FLOW                  CUBIC FEET PER SECOND
              STORAGE VOLUME        ACRE-FEET
              SURFACE AREA          ACRES
              TEMPERATURE           DEGREES FAHRENHEIT
```

*** ***

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          **************
          *            *
  5 KK    *    RES29S  *
          *            *
          **************
  -----DSS---ZOPEN:  Version: 6-EA;  Existing File Opened
                     Unit:  71,  File: C:®HEC1®REVAV®MODEL_8.DSS
-----DSS--- ZREAD Unit  71; Vers.    1:  /MV100-6/RES29S/FLOW/18MAR1997/5MIN//
```

```
-----DSS--- ZREAD Unit  71; Vers.    1:  /MV100-6/RES29S/FLOW/18MAR1997/5MIN//
-----DSS--- ZREAD Unit  71; Vers.    1:  /MV100-6/RES29S/FLOW/19MAR1997/5MIN//

****** WARNING RDTIMS - MISSING FLOW                IN DSS FILE - READ AND INTERPOLATED VALUES SET TO ZERO ******


   8 KO          OUTPUT CONTROL VARIABLES
                       IPRNT          2  PRINT CONTROL
                       IPLOT          0  PLOT CONTROL
                       QSCAL         0.  HYDROGRAPH PLOT SCALE

              SUBBASIN RUNOFF DATA

   6 BA          SUBBASIN CHARACTERISTICS
                       TAREA       74.02  SUBBASIN AREA

                                                  ***

*****************************************************************************************************************************

                                          HYDROGRAPH AT STATION   RES29S

*****************************************************************************************************************************
```

DA MON HRMN	ORD	FLOW	DA MON HRMN	ORD	FLOW	DA MON HRMN	ORD	FLOW	DA MON HRMN	ORD	FLOW
18 MAR 1210	1	0.	18 MAR 1825	76	537.	19 MAR 0040	151	41.	19 MAR 0655	226	1.
18 MAR 1215	2	0.	18 MAR 1830	77	551.	19 MAR 0045	152	40.	19 MAR 0700	227	1.
18 MAR 1220	3	0.	18 MAR 1835	78	555.	19 MAR 0050	153	38.	19 MAR 0705	228	1.
18 MAR 1225	4	0.	18 MAR 1840	79	552.	19 MAR 0055	154	37.	19 MAR 0710	229	1.
18 MAR 1230	5	0.	18 MAR 1845	80	543.	19 MAR 0100	155	36.	19 MAR 0715	230	1.
18 MAR 1235	6	0.	18 MAR 1850	81	531.	19 MAR 0105	156	35.	19 MAR 0720	231	1.
18 MAR 1240	7	0.	18 MAR 1855	82	515.	19 MAR 0110	157	34.	19 MAR 0725	232	1.
18 MAR 1245	8	0.	18 MAR 1900	83	497.	19 MAR 0115	158	33.	19 MAR 0730	233	1.
18 MAR 1250	9	0.	18 MAR 1905	84	478.	19 MAR 0120	159	32.	19 MAR 0735	234	1.
18 MAR 1255	10	0.	18 MAR 1910	85	458.	19 MAR 0125	160	31.	19 MAR 0740	235	0.
18 MAR 1300	11	0.	18 MAR 1915	86	437.	19 MAR 0130	161	30.	19 MAR 0745	236	0.
18 MAR 1305	12	0.	18 MAR 1920	87	417.	19 MAR 0135	162	29.	19 MAR 0750	237	0.
18 MAR 1310	13	0.	18 MAR 1925	88	397.	19 MAR 0140	163	29.	19 MAR 0755	238	0.
18 MAR 1315	14	0.	18 MAR 1930	89	377.	19 MAR 0145	164	28.	19 MAR 0800	239	0.
18 MAR 1320	15	0.	18 MAR 1935	90	358.	19 MAR 0150	165	27.	19 MAR 0805	240	0.
18 MAR 1325	16	0.	18 MAR 1940	91	339.	19 MAR 0155	166	26.	19 MAR 0810	241	0.
18 MAR 1330	17	0.	18 MAR 1945	92	320.	19 MAR 0200	167	25.	19 MAR 0815	242	0.
18 MAR 1335	18	0.	18 MAR 1950	93	302.	19 MAR 0205	168	24.	19 MAR 0820	243	0.
18 MAR 1340	19	0.	18 MAR 1955	94	284.	19 MAR 0210	169	24.	19 MAR 0825	244	0.
18 MAR 1345	20	0.	18 MAR 2000	95	268.	19 MAR 0215	170	23.	19 MAR 0830	245	0.
18 MAR 1350	21	0.	18 MAR 2005	96	252.	19 MAR 0220	171	22.	19 MAR 0835	246	0.
18 MAR 1355	22	0.	18 MAR 2010	97	238.	19 MAR 0225	172	21.	19 MAR 0840	247	0.
18 MAR 1400	23	0.	18 MAR 2015	98	225.	19 MAR 0230	173	20.	19 MAR 0845	248	0.
18 MAR 1405	24	0.	18 MAR 2020	99	212.	19 MAR 0235	174	19.	19 MAR 0850	249	0.
18 MAR 1410	25	0.	18 MAR 2025	100	201.	19 MAR 0240	175	19.	19 MAR 0855	250	0.
18 MAR 1415	26	0.	18 MAR 2030	101	191.	19 MAR 0245	176	18.	19 MAR 0900	251	0.
18 MAR 1420	27	0.	18 MAR 2035	102	182.	19 MAR 0250	177	17.	19 MAR 0905	252	0.
18 MAR 1425	28	0.	18 MAR 2040	103	173.	19 MAR 0255	178	16.	19 MAR 0910	253	0.
18 MAR 1430	29	0.	18 MAR 2045	104	165.	19 MAR 0300	179	15.	19 MAR 0915	254	0.
18 MAR 1435	30	0.	18 MAR 2050	105	157.	19 MAR 0305	180	14.	19 MAR 0920	255	0.

18 MAR 1440	31	0.	*	18 MAR 2055	106	150.	*	19 MAR 0310	181	14.	*	19 MAR 0925	256	0.
18 MAR 1445	32	0.	*	18 MAR 2100	107	143.	*	19 MAR 0315	182	13.	*	19 MAR 0930	257	0.
18 MAR 1450	33	0.	*	18 MAR 2105	108	137.	*	19 MAR 0320	183	12.	*	19 MAR 0935	258	0.
18 MAR 1455	34	0.	*	18 MAR 2110	109	131.	*	19 MAR 0325	184	12.	*	19 MAR 0940	259	0.
18 MAR 1500	35	0.	*	18 MAR 2115	110	126.	*	19 MAR 0330	185	11.	*	19 MAR 0945	260	0.
18 MAR 1505	36	0.	*	18 MAR 2120	111	121.	*	19 MAR 0335	186	10.	*	19 MAR 0950	261	0.
18 MAR 1510	37	0.	*	18 MAR 2125	112	116.	*	19 MAR 0340	187	10.	*	19 MAR 0955	262	0.
18 MAR 1515	38	0.	*	18 MAR 2130	113	112.	*	19 MAR 0345	188	9.	*	19 MAR 1000	263	0.
18 MAR 1520	39	0.	*	18 MAR 2135	114	108.	*	19 MAR 0350	189	9.	*	19 MAR 1005	264	0.
18 MAR 1525	40	0.	*	18 MAR 2140	115	106.	*	19 MAR 0355	190	8.	*	19 MAR 1010	265	0.
18 MAR 1530	41	0.	*	18 MAR 2145	116	103.	*	19 MAR 0400	191	8.	*	19 MAR 1015	266	0.
18 MAR 1535	42	0.	*	18 MAR 2150	117	101.	*	19 MAR 0405	192	7.	*	19 MAR 1020	267	0.
18 MAR 1540	43	0.	*	18 MAR 2155	118	99.	*	19 MAR 0410	193	7.	*	19 MAR 1025	268	0.
18 MAR 1545	44	0.	*	18 MAR 2200	119	96.	*	19 MAR 0415	194	7.	*	19 MAR 1030	269	0.
18 MAR 1550	45	0.	*	18 MAR 2205	120	94.	*	19 MAR 0420	195	6.	*	19 MAR 1035	270	0.
18 MAR 1555	46	0.	*	18 MAR 2210	121	92.	*	19 MAR 0425	196	6.	*	19 MAR 1040	271	0.
18 MAR 1600	47	0.	*	18 MAR 2215	122	90.	*	19 MAR 0430	197	6.	*	19 MAR 1045	272	0.
18 MAR 1605	48	0.	*	18 MAR 2220	123	88.	*	19 MAR 0435	198	5.	*	19 MAR 1050	273	0.
18 MAR 1610	49	0.	*	18 MAR 2225	124	86.	*	19 MAR 0440	199	5.	*	19 MAR 1055	274	0.
18 MAR 1615	50	0.	*	18 MAR 2230	125	84.	*	19 MAR 0445	200	5.	*	19 MAR 1100	275	0.
18 MAR 1620	51	0.	*	18 MAR 2235	126	82.	*	19 MAR 0450	201	4.	*	19 MAR 1105	276	0.
18 MAR 1625	52	0.	*	18 MAR 2240	127	80.	*	19 MAR 0455	202	4.	*	19 MAR 1110	277	0.
18 MAR 1630	53	0.	*	18 MAR 2245	128	78.	*	19 MAR 0500	203	4.	*	19 MAR 1115	278	0.
18 MAR 1635	54	0.	*	18 MAR 2250	129	76.	*	19 MAR 0505	204	4.	*	19 MAR 1120	279	0.
18 MAR 1640	55	0.	*	18 MAR 2255	130	74.	*	19 MAR 0510	205	3.	*	19 MAR 1125	280	0.
18 MAR 1645	56	0.	*	18 MAR 2300	131	72.	*	19 MAR 0515	206	3.	*	19 MAR 1130	281	0.
18 MAR 1650	57	0.	*	18 MAR 2305	132	70.	*	19 MAR 0520	207	3.	*	19 MAR 1135	282	0.
18 MAR 1655	58	0.	*	18 MAR 2310	133	69.	*	19 MAR 0525	208	3.	*	19 MAR 1140	283	0.
18 MAR 1700	59	0.	*	18 MAR 2315	134	67.	*	19 MAR 0530	209	3.	*	19 MAR 1145	284	0.
18 MAR 1705	60	0.	*	18 MAR 2320	135	65.	*	19 MAR 0535	210	2.	*	19 MAR 1150	285	0.
18 MAR 1710	61	0.	*	18 MAR 2325	136	63.	*	19 MAR 0540	211	2.	*	19 MAR 1155	286	0.
18 MAR 1715	62	0.	*	18 MAR 2330	137	62.	*	19 MAR 0545	212	2.	*	19 MAR 1200	287	0.
18 MAR 1720	63	0.	*	18 MAR 2335	138	60.	*	19 MAR 0550	213	2.	*	19 MAR 1205	288	0.
18 MAR 1725	64	0.	*	18 MAR 2340	139	58.	*	19 MAR 0555	214	2.	*	19 MAR 1210	289	0.
18 MAR 1730	65	6.	*	18 MAR 2345	140	57.	*	19 MAR 0600	215	2.	*	19 MAR 1215	290	0.
18 MAR 1735	66	30.	*	18 MAR 2350	141	55.	*	19 MAR 0605	216	2.	*	19 MAR 1220	291	0.
18 MAR 1740	67	54.	*	18 MAR 2355	142	53.	*	19 MAR 0610	217	1.	*	19 MAR 1225	292	0.
18 MAR 1745	68	72.	*	19 MAR 0000	143	52.	*	19 MAR 0615	218	1.	*	19 MAR 1230	293	0.
18 MAR 1750	69	86.	*	19 MAR 0005	144	50.	*	19 MAR 0620	219	1.	*	19 MAR 1235	294	0.
18 MAR 1755	70	123.	*	19 MAR 0010	145	49.	*	19 MAR 0625	220	1.	*	19 MAR 1240	295	0.
18 MAR 1800	71	211.	*	19 MAR 0015	146	47.	*	19 MAR 0630	221	1.	*	19 MAR 1245	296	0.
18 MAR 1805	72	325.	*	19 MAR 0020	147	46.	*	19 MAR 0635	222	1.	*	19 MAR 1250	297	0.
18 MAR 1810	73	410.	*	19 MAR 0025	148	45.	*	19 MAR 0640	223	1.	*	19 MAR 1255	298	0.
18 MAR 1815	74	471.	*	19 MAR 0030	149	43.	*	19 MAR 0645	224	1.	*	19 MAR 1300	299	0.
18 MAR 1820	75	512.	*	19 MAR 0035	150	42.	*	19 MAR 0650	225	1.	*	19 MAR 1305	300	0.
			*				*				*			

****

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)					
		(CFS)				
555.	6.42		223.	62.	59.	59.
		(INCHES)	.028	.031	.031	.031
		(AC-FT)	111.	122.	122.	122.

CUMULATIVE AREA = 74.02 SQ MI

```
*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

          **************
          *            *
 9 KK     *     DEVEL  *     OPE RAINFALL FOR SUBBASIN A
          *            *
          **************
                         SUB-BASIN A
                         6-HOUR RAINFALL, PATTERN NO. 2.13 WAS USED TO FIND TC & R FOR THIS BASIN
                         THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .970
                           L = 1.00  Kb = .028  Adj. Slope =   7.0
                         RAINFALL DEPTH OF 3.00 WAS SPACIALLY REDUCED AS SHOWN BY THE PB RECORD
                         THE FOLLOWING PC RECORD USED A 6-HOUR STORM WITH A PATTERN No. OF 2.13

 15 IN          TIME DATA FOR INPUT TIME SERIES
                      JXMIN          15  TIME INTERVAL IN MINUTES
                     JXDATE     18MAR97  STARTING DATE
                     JXTIME        1210  STARTING TIME

 26 KO          OUTPUT CONTROL VARIABLES
                      IPRNT           2  PRINT CONTROL
                      IPLOT           0  PLOT CONTROL
                      QSCAL          0.  HYDROGRAPH PLOT SCALE

             SUBBASIN RUNOFF DATA

 14 BA          SUBBASIN CHARACTERISTICS
                      TAREA         .25  SUBBASIN AREA

                PRECIPITATION DATA

 18 PB                STORM        2.91  BASIN TOTAL PRECIPITATION

 18 PI            INCREMENTAL PRECIPITATION PATTERN
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00       .00       .01       .01       .01       .01       .01       .01       .03
                     .03       .03       .06       .06       .06       .08       .08       .08       .05       .05
                     .05       .02       .02       .02       .01       .01       .01       .00       .00       .00
                     .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                     .00       .00

 22 LG          GREEN AND AMPT LOSS RATE
                     STRTL         .23  STARTING LOSS
                       DTH         .15  MOISTURE DEFICIT
                      PSIF        8.50  WETTING FRONT SUCTION
                     XKSAT         .06  HYDRAULIC CONDUCTIVITY
                     RTIMP       27.00  PERCENT IMPERVIOUS AREA

 23 UC          CLARK UNITGRAPH
                        TC         .75  TIME OF CONCENTRATION
                         R         .59  STORAGE COEFFICIENT
```

24 UA ACCUMULATED-AREA VS. TIME, 11 ORDINATES

.0	5.0	16.0	30.0	65.0	77.0	84.0	90.0	94.0	97.0
100.0									

***

UNIT HYDROGRAPH PARAMETERS

CLARK TC= .75 HR, R= .59 HR

SNYDER TP= .42 HR, CP= .43

UNIT HYDROGRAPH

42 END-OF-PERIOD ORDINATES

8.	32.	74.	130.	164.	165.	159.	149.	138.	124.
108.	94.	81.	71.	61.	53.	46.	40.	35.	30.
26.	23.	20.	17.	15.	13.	11.	10.	8.	7.
6.	5.	5.	4.	4.	3.	3.	2.	2.	2.
2.	1.								

****

HYDROGRAPH AT STATION DEVEL

****

DA MON HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA MON HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
18 MAR 1210	1	.00	.00	.00	0.	*	19 MAR 0040	151	.00	.00	.00	0.
18 MAR 1215	2	.01	.01	.00	0.	*	19 MAR 0045	152	.00	.00	.00	0.
18 MAR 1220	3	.01	.01	.00	0.	*	19 MAR 0050	153	.00	.00	.00	0.
18 MAR 1225	4	.01	.01	.00	0.	*	19 MAR 0055	154	.00	.00	.00	0.
18 MAR 1230	5	.01	.00	.00	1.	*	19 MAR 0100	155	.00	.00	.00	0.
18 MAR 1235	6	.01	.00	.00	1.	*	19 MAR 0105	156	.00	.00	.00	0.
18 MAR 1240	7	.01	.00	.00	1.	*	19 MAR 0110	157	.00	.00	.00	0.
18 MAR 1245	8	.01	.01	.00	2.	*	19 MAR 0115	158	.00	.00	.00	0.
18 MAR 1250	9	.01	.01	.00	2.	*	19 MAR 0120	159	.00	.00	.00	0.
18 MAR 1255	10	.01	.01	.00	2.	*	19 MAR 0125	160	.00	.00	.00	0.
18 MAR 1300	11	.01	.01	.00	3.	*	19 MAR 0130	161	.00	.00	.00	0.
18 MAR 1305	12	.01	.01	.00	3.	*	19 MAR 0135	162	.00	.00	.00	0.
18 MAR 1310	13	.01	.01	.00	3.	*	19 MAR 0140	163	.00	.00	.00	0.
18 MAR 1315	14	.01	.01	.00	3.	*	19 MAR 0145	164	.00	.00	.00	0.
18 MAR 1320	15	.01	.01	.00	3.	*	19 MAR 0150	165	.00	.00	.00	0.
18 MAR 1325	16	.01	.01	.00	4.	*	19 MAR 0155	166	.00	.00	.00	0.
18 MAR 1330	17	.01	.01	.00	4.	*	19 MAR 0200	167	.00	.00	.00	0.
18 MAR 1335	18	.01	.01	.00	4.	*	19 MAR 0205	168	.00	.00	.00	0.
18 MAR 1340	19	.01	.01	.00	4.	*	19 MAR 0210	169	.00	.00	.00	0.
18 MAR 1345	20	.01	.01	.00	4.	*	19 MAR 0215	170	.00	.00	.00	0.
18 MAR 1350	21	.01	.01	.00	4.	*	19 MAR 0220	171	.00	.00	.00	0.
18 MAR 1355	22	.01	.01	.00	4.	*	19 MAR 0225	172	.00	.00	.00	0.
18 MAR 1400	23	.01	.01	.00	4.	*	19 MAR 0230	173	.00	.00	.00	0.
18 MAR 1405	24	.01	.01	.00	4.	*	19 MAR 0235	174	.00	.00	.00	0.
18 MAR 1410	25	.01	.01	.00	4.	*	19 MAR 0240	175	.00	.00	.00	0.
18 MAR 1415	26	.01	.01	.00	4.	*	19 MAR 0245	176	.00	.00	.00	0.
18 MAR 1420	27	.01	.01	.00	4.	*	19 MAR 0250	177	.00	.00	.00	0.
18 MAR 1425	28	.01	.01	.00	4.	*	19 MAR 0255	178	.00	.00	.00	0.
18 MAR 1430	29	.01	.01	.00	4.	*	19 MAR 0300	179	.00	.00	.00	0.
18 MAR 1435	30	.01	.01	.00	5.	*	19 MAR 0305	180	.00	.00	.00	0.
18 MAR 1440	31	.01	.01	.00	5.	*	19 MAR 0310	181	.00	.00	.00	0.
18 MAR 1445	32	.01	.01	.00	5.	*	19 MAR 0315	182	.00	.00	.00	0.

18 MAR 1450	33	.01	.01	.00	5.	*	19 MAR 0320	183	.00	.00	.00	0.
18 MAR 1455	34	.01	.01	.00	5.	*	19 MAR 0325	184	.00	.00	.00	0.
18 MAR 1500	35	.02	.01	.01	5.	*	19 MAR 0330	185	.00	.00	.00	0.
18 MAR 1505	36	.02	.01	.01	6.	*	19 MAR 0335	186	.00	.00	.00	0.
18 MAR 1510	37	.02	.01	.01	6.	*	19 MAR 0340	187	.00	.00	.00	0.
18 MAR 1515	38	.04	.03	.01	6.	*	19 MAR 0345	188	.00	.00	.00	0.
18 MAR 1520	39	.04	.03	.02	7.	*	19 MAR 0350	189	.00	.00	.00	0.
18 MAR 1525	40	.04	.02	.02	8.	*	19 MAR 0355	190	.00	.00	.00	0.
18 MAR 1530	41	.09	.02	.07	10.	*	19 MAR 0400	191	.00	.00	.00	0.
18 MAR 1535	42	.09	.02	.07	14.	*	19 MAR 0405	192	.00	.00	.00	0.
18 MAR 1540	43	.09	.02	.07	19.	*	19 MAR 0410	193	.00	.00	.00	0.
18 MAR 1545	44	.19	.02	.17	29.	*	19 MAR 0415	194	.00	.00	.00	0.
18 MAR 1550	45	.19	.02	.17	43.	*	19 MAR 0420	195	.00	.00	.00	0.
18 MAR 1555	46	.19	.02	.17	61.	*	19 MAR 0425	196	.00	.00	.00	0.
18 MAR 1600	47	.23	.01	.22	84.	*	19 MAR 0430	197	.00	.00	.00	0.
18 MAR 1605	48	.23	.01	.22	112.	*	19 MAR 0435	198	.00	.00	.00	0.
18 MAR 1610	49	.23	.01	.22	141.	*	19 MAR 0440	199	.00	.00	.00	0.
18 MAR 1615	50	.14	.01	.12	170.	*	19 MAR 0445	200	.00	.00	.00	0.
18 MAR 1620	51	.14	.01	.12	196.	*	19 MAR 0450	201	.00	.00	.00	0.
18 MAR 1625	52	.14	.01	.12	217.	*	19 MAR 0455	202	.00	.00	.00	0.
18 MAR 1630	53	.06	.01	.05	229.	*	19 MAR 0500	203	.00	.00	.00	0.
18 MAR 1635	54	.06	.01	.05	234.	*	19 MAR 0505	204	.00	.00	.00	0.
18 MAR 1640	55	.06	.01	.05	233.	*	19 MAR 0510	205	.00	.00	.00	0.
18 MAR 1645	56	.04	.01	.03	225.	*	19 MAR 0515	206	.00	.00	.00	0.
18 MAR 1650	57	.04	.01	.03	213.	*	19 MAR 0520	207	.00	.00	.00	0.
18 MAR 1655	58	.04	.01	.03	200.	*	19 MAR 0525	208	.00	.00	.00	0.
18 MAR 1700	59	.01	.01	.00	184.	*	19 MAR 0530	209	.00	.00	.00	0.
18 MAR 1705	60	.01	.01	.00	169.	*	19 MAR 0535	210	.00	.00	.00	0.
18 MAR 1710	61	.01	.01	.00	153.	*	19 MAR 0540	211	.00	.00	.00	0.
18 MAR 1715	62	.01	.01	.00	137.	*	19 MAR 0545	212	.00	.00	.00	0.
18 MAR 1720	63	.01	.01	.00	121.	*	19 MAR 0550	213	.00	.00	.00	0.
18 MAR 1725	64	.01	.01	.00	107.	*	19 MAR 0555	214	.00	.00	.00	0.
18 MAR 1730	65	.01	.01	.00	94.	*	19 MAR 0600	215	.00	.00	.00	0.
18 MAR 1735	66	.01	.01	.00	83.	*	19 MAR 0605	216	.00	.00	.00	0.
18 MAR 1740	67	.01	.01	.00	73.	*	19 MAR 0610	217	.00	.00	.00	0.
18 MAR 1745	68	.01	.01	.00	64.	*	19 MAR 0615	218	.00	.00	.00	0.
18 MAR 1750	69	.01	.01	.00	57.	*	19 MAR 0620	219	.00	.00	.00	0.
18 MAR 1755	70	.01	.01	.00	50.	*	19 MAR 0625	220	.00	.00	.00	0.
18 MAR 1800	71	.01	.01	.00	44.	*	19 MAR 0630	221	.00	.00	.00	0.
18 MAR 1805	72	.01	.01	.00	39.	*	19 MAR 0635	222	.00	.00	.00	0.
18 MAR 1810	73	.01	.01	.00	35.	*	19 MAR 0640	223	.00	.00	.00	0.
18 MAR 1815	74	.00	.00	.00	31.	*	19 MAR 0645	224	.00	.00	.00	0.
18 MAR 1820	75	.00	.00	.00	28.	*	19 MAR 0650	225	.00	.00	.00	0.
18 MAR 1825	76	.00	.00	.00	25.	*	19 MAR 0655	226	.00	.00	.00	0.
18 MAR 1830	77	.00	.00	.00	22.	*	19 MAR 0700	227	.00	.00	.00	0.
18 MAR 1835	78	.00	.00	.00	19.	*	19 MAR 0705	228	.00	.00	.00	0.
18 MAR 1840	79	.00	.00	.00	17.	*	19 MAR 0710	229	.00	.00	.00	0.
18 MAR 1845	80	.00	.00	.00	15.	*	19 MAR 0715	230	.00	.00	.00	0.
18 MAR 1850	81	.00	.00	.00	13.	*	19 MAR 0720	231	.00	.00	.00	0.
18 MAR 1855	82	.00	.00	.00	11.	*	19 MAR 0725	232	.00	.00	.00	0.
18 MAR 1900	83	.00	.00	.00	9.	*	19 MAR 0730	233	.00	.00	.00	0.
18 MAR 1905	84	.00	.00	.00	8.	*	19 MAR 0735	234	.00	.00	.00	0.
18 MAR 1910	85	.00	.00	.00	7.	*	19 MAR 0740	235	.00	.00	.00	0.
18 MAR 1915	86	.00	.00	.00	6.	*	19 MAR 0745	236	.00	.00	.00	0.
18 MAR 1920	87	.00	.00	.00	5.	*	19 MAR 0750	237	.00	.00	.00	0.
18 MAR 1925	88	.00	.00	.00	4.	*	19 MAR 0755	238	.00	.00	.00	0.
18 MAR 1930	89	.00	.00	.00	3.	*	19 MAR 0800	239	.00	.00	.00	0.
18 MAR 1935	90	.00	.00	.00	3.	*	19 MAR 0805	240	.00	.00	.00	0.

18 MAR 1940	91	.00	.00	.00	2.	*	19 MAR 0810	241	.00	.00	.00	0.
18 MAR 1945	92	.00	.00	.00	2.	*	19 MAR 0815	242	.00	.00	.00	0.
18 MAR 1950	93	.00	.00	.00	1.	*	19 MAR 0820	243	.00	.00	.00	0.
18 MAR 1955	94	.00	.00	.00	1.	*	19 MAR 0825	244	.00	.00	.00	0.
18 MAR 2000	95	.00	.00	.00	1.	*	19 MAR 0830	245	.00	.00	.00	0.
18 MAR 2005	96	.00	.00	.00	1.	*	19 MAR 0835	246	.00	.00	.00	0.
18 MAR 2010	97	.00	.00	.00	0.	*	19 MAR 0840	247	.00	.00	.00	0.
18 MAR 2015	98	.00	.00	.00	0.	*	19 MAR 0845	248	.00	.00	.00	0.
18 MAR 2020	99	.00	.00	.00	0.	*	19 MAR 0850	249	.00	.00	.00	0.
18 MAR 2025	100	.00	.00	.00	0.	*	19 MAR 0855	250	.00	.00	.00	0.
18 MAR 2030	101	.00	.00	.00	0.	*	19 MAR 0900	251	.00	.00	.00	0.
18 MAR 2035	102	.00	.00	.00	0.	*	19 MAR 0905	252	.00	.00	.00	0.
18 MAR 2040	103	.00	.00	.00	0.	*	19 MAR 0910	253	.00	.00	.00	0.
18 MAR 2045	104	.00	.00	.00	0.	*	19 MAR 0915	254	.00	.00	.00	0.
18 MAR 2050	105	.00	.00	.00	0.	*	19 MAR 0920	255	.00	.00	.00	0.
18 MAR 2055	106	.00	.00	.00	0.	*	19 MAR 0925	256	.00	.00	.00	0.
18 MAR 2100	107	.00	.00	.00	0.	*	19 MAR 0930	257	.00	.00	.00	0.
18 MAR 2105	108	.00	.00	.00	0.	*	19 MAR 0935	258	.00	.00	.00	0.
18 MAR 2110	109	.00	.00	.00	0.	*	19 MAR 0940	259	.00	.00	.00	0.
18 MAR 2115	110	.00	.00	.00	0.	*	19 MAR 0945	260	.00	.00	.00	0.
18 MAR 2120	111	.00	.00	.00	0.	*	19 MAR 0950	261	.00	.00	.00	0.
18 MAR 2125	112	.00	.00	.00	0.	*	19 MAR 0955	262	.00	.00	.00	0.
18 MAR 2130	113	.00	.00	.00	0.	*	19 MAR 1000	263	.00	.00	.00	0.
18 MAR 2135	114	.00	.00	.00	0.	*	19 MAR 1005	264	.00	.00	.00	0.
18 MAR 2140	115	.00	.00	.00	0.	*	19 MAR 1010	265	.00	.00	.00	0.
18 MAR 2145	116	.00	.00	.00	0.	*	19 MAR 1015	266	.00	.00	.00	0.
18 MAR 2150	117	.00	.00	.00	0.	*	19 MAR 1020	267	.00	.00	.00	0.
18 MAR 2155	118	.00	.00	.00	0.	*	19 MAR 1025	268	.00	.00	.00	0.
18 MAR 2200	119	.00	.00	.00	0.	*	19 MAR 1030	269	.00	.00	.00	0.
18 MAR 2205	120	.00	.00	.00	0.	*	19 MAR 1035	270	.00	.00	.00	0.
18 MAR 2210	121	.00	.00	.00	0.	*	19 MAR 1040	271	.00	.00	.00	0.
18 MAR 2215	122	.00	.00	.00	0.	*	19 MAR 1045	272	.00	.00	.00	0.
18 MAR 2220	123	.00	.00	.00	0.	*	19 MAR 1050	273	.00	.00	.00	0.
18 MAR 2225	124	.00	.00	.00	0.	*	19 MAR 1055	274	.00	.00	.00	0.
18 MAR 2230	125	.00	.00	.00	0.	*	19 MAR 1100	275	.00	.00	.00	0.
18 MAR 2235	126	.00	.00	.00	0.	*	19 MAR 1105	276	.00	.00	.00	0.
18 MAR 2240	127	.00	.00	.00	0.	*	19 MAR 1110	277	.00	.00	.00	0.
18 MAR 2245	128	.00	.00	.00	0.	*	19 MAR 1115	278	.00	.00	.00	0.
18 MAR 2250	129	.00	.00	.00	0.	*	19 MAR 1120	279	.00	.00	.00	0.
18 MAR 2255	130	.00	.00	.00	0.	*	19 MAR 1125	280	.00	.00	.00	0.
18 MAR 2300	131	.00	.00	.00	0.	*	19 MAR 1130	281	.00	.00	.00	0.
18 MAR 2305	132	.00	.00	.00	0.	*	19 MAR 1135	282	.00	.00	.00	0.
18 MAR 2310	133	.00	.00	.00	0.	*	19 MAR 1140	283	.00	.00	.00	0.
18 MAR 2315	134	.00	.00	.00	0.	*	19 MAR 1145	284	.00	.00	.00	0.
18 MAR 2320	135	.00	.00	.00	0.	*	19 MAR 1150	285	.00	.00	.00	0.
18 MAR 2325	136	.00	.00	.00	0.	*	19 MAR 1155	286	.00	.00	.00	0.
18 MAR 2330	137	.00	.00	.00	0.	*	19 MAR 1200	287	.00	.00	.00	0.
18 MAR 2335	138	.00	.00	.00	0.	*	19 MAR 1205	288	.00	.00	.00	0.
18 MAR 2340	139	.00	.00	.00	0.	*	19 MAR 1210	289	.00	.00	.00	0.
18 MAR 2345	140	.00	.00	.00	0.	*	19 MAR 1215	290	.00	.00	.00	0.
18 MAR 2350	141	.00	.00	.00	0.	*	19 MAR 1220	291	.00	.00	.00	0.
18 MAR 2355	142	.00	.00	.00	0.	*	19 MAR 1225	292	.00	.00	.00	0.
19 MAR 0000	143	.00	.00	.00	0.	*	19 MAR 1230	293	.00	.00	.00	0.
19 MAR 0005	144	.00	.00	.00	0.	*	19 MAR 1235	294	.00	.00	.00	0.
19 MAR 0010	145	.00	.00	.00	0.	*	19 MAR 1240	295	.00	.00	.00	0.
19 MAR 0015	146	.00	.00	.00	0.	*	19 MAR 1245	296	.00	.00	.00	0.
19 MAR 0020	147	.00	.00	.00	0.	*	19 MAR 1250	297	.00	.00	.00	0.
19 MAR 0025	148	.00	.00	.00	0.	*	19 MAR 1255	298	.00	.00	.00	0.

19 MAR 0030	149	.00	.00	.00	0.	*	19 MAR 1300	299	.00	.00	.00	0.
19 MAR 0035	150	.00	.00	.00	0.	*	19 MAR 1305	300	.00	.00	.00	0.
						*						

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TOTAL RAINFALL = 2.91, TOTAL LOSS = .75, TOTAL EXCESS = 2.16

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
234.	4.42		58.	15.	14.	14.
		(INCHES)	2.131	2.153	2.153	2.153
		(AC-FT)	29.	29.	29.	29.

CUMULATIVE AREA = .25 SQ MI

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          *            *
27 KK     *    COMBI   *     NE IMPORTED HYDROGRAPH WITH SUB-BASIN A
          *            *
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30 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE

29 HC HYDROGRAPH COMBINATION

ICOMP	2	NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION COMBI
SUM OF 2 HYDROGRAPHS

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DA MON HRMN	ORD	FLOW	DA MON HRMN	ORD	FLOW	DA MON HRMN	ORD	FLOW	DA MON HRMN	ORD	FLOW
18 MAR 1210	1	0.	18 MAR 1825	76	562.	19 MAR 0040	151	41.	19 MAR 0655	226	1.
18 MAR 1215	2	0.	18 MAR 1830	77	572.	19 MAR 0045	152	40.	19 MAR 0700	227	1.
18 MAR 1220	3	0.	18 MAR 1835	78	574.	19 MAR 0050	153	38.	19 MAR 0705	228	1.
18 MAR 1225	4	0.	18 MAR 1840	79	568.	19 MAR 0055	154	37.	19 MAR 0710	229	1.
18 MAR 1230	5	1.	18 MAR 1845	80	558.	19 MAR 0100	155	36.	19 MAR 0715	230	1.
18 MAR 1235	6	1.	18 MAR 1850	81	543.	19 MAR 0105	156	35.	19 MAR 0720	231	1.
18 MAR 1240	7	1.	18 MAR 1855	82	526.	19 MAR 0110	157	34.	19 MAR 0725	232	1.
18 MAR 1245	8	2.	18 MAR 1900	83	507.	19 MAR 0115	158	33.	19 MAR 0730	233	1.
18 MAR 1250	9	2.	18 MAR 1905	84	486.	19 MAR 0120	159	32.	19 MAR 0735	234	1.

18 MAR 1255	10	2.	*	18 MAR 1910	85	465.	*	19 MAR 0125	160	31.	*	19 MAR 0740	235	0.
18 MAR 1300	11	3.	*	18 MAR 1915	86	443.	*	19 MAR 0130	161	30.	*	19 MAR 0745	236	0.
18 MAR 1305	12	3.	*	18 MAR 1920	87	422.	*	19 MAR 0135	162	29.	*	19 MAR 0750	237	0.
18 MAR 1310	13	3.	*	18 MAR 1925	88	401.	*	19 MAR 0140	163	29.	*	19 MAR 0755	238	0.
18 MAR 1315	14	3.	*	18 MAR 1930	89	381.	*	19 MAR 0145	164	28.	*	19 MAR 0800	239	0.
18 MAR 1320	15	3.	*	18 MAR 1935	90	360.	*	19 MAR 0150	165	27.	*	19 MAR 0805	240	0.
18 MAR 1325	16	4.	*	18 MAR 1940	91	341.	*	19 MAR 0155	166	26.	*	19 MAR 0810	241	0.
18 MAR 1330	17	4.	*	18 MAR 1945	92	321.	*	19 MAR 0200	167	25.	*	19 MAR 0815	242	0.
18 MAR 1335	18	4.	*	18 MAR 1950	93	303.	*	19 MAR 0205	168	24.	*	19 MAR 0820	243	0.
18 MAR 1340	19	4.	*	18 MAR 1955	94	285.	*	19 MAR 0210	169	24.	*	19 MAR 0825	244	0.
18 MAR 1345	20	4.	*	18 MAR 2000	95	268.	*	19 MAR 0215	170	23.	*	19 MAR 0830	245	0.
18 MAR 1350	21	4.	*	18 MAR 2005	96	253.	*	19 MAR 0220	171	22.	*	19 MAR 0835	246	0.
18 MAR 1355	22	4.	*	18 MAR 2010	97	238.	*	19 MAR 0225	172	21.	*	19 MAR 0840	247	0.
18 MAR 1400	23	4.	*	18 MAR 2015	98	225.	*	19 MAR 0230	173	20.	*	19 MAR 0845	248	0.
18 MAR 1405	24	4.	*	18 MAR 2020	99	213.	*	19 MAR 0235	174	19.	*	19 MAR 0850	249	0.
18 MAR 1410	25	4.	*	18 MAR 2025	100	202.	*	19 MAR 0240	175	19.	*	19 MAR 0855	250	0.
18 MAR 1415	26	4.	*	18 MAR 2030	101	191.	*	19 MAR 0245	176	18.	*	19 MAR 0900	251	0.
18 MAR 1420	27	4.	*	18 MAR 2035	102	182.	*	19 MAR 0250	177	17.	*	19 MAR 0905	252	0.
18 MAR 1425	28	4.	*	18 MAR 2040	103	173.	*	19 MAR 0255	178	16.	*	19 MAR 0910	253	0.
18 MAR 1430	29	4.	*	18 MAR 2045	104	165.	*	19 MAR 0300	179	15.	*	19 MAR 0915	254	0.
18 MAR 1435	30	5.	*	18 MAR 2050	105	157.	*	19 MAR 0305	180	14.	*	19 MAR 0920	255	0.
18 MAR 1440	31	5.	*	18 MAR 2055	106	150.	*	19 MAR 0310	181	14.	*	19 MAR 0925	256	0.
18 MAR 1445	32	5.	*	18 MAR 2100	107	144.	*	19 MAR 0315	182	13.	*	19 MAR 0930	257	0.
18 MAR 1450	33	5.	*	18 MAR 2105	108	137.	*	19 MAR 0320	183	12.	*	19 MAR 0935	258	0.
18 MAR 1455	34	5.	*	18 MAR 2110	109	132.	*	19 MAR 0325	184	12.	*	19 MAR 0940	259	0.
18 MAR 1500	35	5.	*	18 MAR 2115	110	126.	*	19 MAR 0330	185	11.	*	19 MAR 0945	260	0.
18 MAR 1505	36	6.	*	18 MAR 2120	111	121.	*	19 MAR 0335	186	10.	*	19 MAR 0950	261	0.
18 MAR 1510	37	6.	*	18 MAR 2125	112	116.	*	19 MAR 0340	187	10.	*	19 MAR 0955	262	0.
18 MAR 1515	38	6.	*	18 MAR 2130	113	112.	*	19 MAR 0345	188	9.	*	19 MAR 1000	263	0.
18 MAR 1520	39	7.	*	18 MAR 2135	114	108.	*	19 MAR 0350	189	9.	*	19 MAR 1005	264	0.
18 MAR 1525	40	8.	*	18 MAR 2140	115	106.	*	19 MAR 0355	190	8.	*	19 MAR 1010	265	0.
18 MAR 1530	41	10.	*	18 MAR 2145	116	103.	*	19 MAR 0400	191	8.	*	19 MAR 1015	266	0.
18 MAR 1535	42	14.	*	18 MAR 2150	117	101.	*	19 MAR 0405	192	7.	*	19 MAR 1020	267	0.
18 MAR 1540	43	19.	*	18 MAR 2155	118	99.	*	19 MAR 0410	193	7.	*	19 MAR 1025	268	0.
18 MAR 1545	44	29.	*	18 MAR 2200	119	96.	*	19 MAR 0415	194	7.	*	19 MAR 1030	269	0.
18 MAR 1550	45	43.	*	18 MAR 2205	120	94.	*	19 MAR 0420	195	6.	*	19 MAR 1035	270	0.
18 MAR 1555	46	61.	*	18 MAR 2210	121	92.	*	19 MAR 0425	196	6.	*	19 MAR 1040	271	0.
18 MAR 1600	47	84.	*	18 MAR 2215	122	90.	*	19 MAR 0430	197	6.	*	19 MAR 1045	272	0.
18 MAR 1605	48	112.	*	18 MAR 2220	123	88.	*	19 MAR 0435	198	5.	*	19 MAR 1050	273	0.
18 MAR 1610	49	141.	*	18 MAR 2225	124	86.	*	19 MAR 0440	199	5.	*	19 MAR 1055	274	0.
18 MAR 1615	50	170.	*	18 MAR 2230	125	84.	*	19 MAR 0445	200	5.	*	19 MAR 1100	275	0.
18 MAR 1620	51	196.	*	18 MAR 2235	126	82.	*	19 MAR 0450	201	4.	*	19 MAR 1105	276	0.
18 MAR 1625	52	217.	*	18 MAR 2240	127	80.	*	19 MAR 0455	202	4.	*	19 MAR 1110	277	0.
18 MAR 1630	53	229.	*	18 MAR 2245	128	78.	*	19 MAR 0500	203	4.	*	19 MAR 1115	278	0.
18 MAR 1635	54	234.	*	18 MAR 2250	129	76.	*	19 MAR 0505	204	4.	*	19 MAR 1120	279	0.
18 MAR 1640	55	233.	*	18 MAR 2255	130	74.	*	19 MAR 0510	205	3.	*	19 MAR 1125	280	0.
18 MAR 1645	56	225.	*	18 MAR 2300	131	72.	*	19 MAR 0515	206	3.	*	19 MAR 1130	281	0.
18 MAR 1650	57	214.	*	18 MAR 2305	132	70.	*	19 MAR 0520	207	3.	*	19 MAR 1135	282	0.
18 MAR 1655	58	200.	*	18 MAR 2310	133	69.	*	19 MAR 0525	208	3.	*	19 MAR 1140	283	0.
18 MAR 1700	59	185.	*	18 MAR 2315	134	67.	*	19 MAR 0530	209	3.	*	19 MAR 1145	284	0.
18 MAR 1705	60	169.	*	18 MAR 2320	135	65.	*	19 MAR 0535	210	2.	*	19 MAR 1150	285	0.
18 MAR 1710	61	153.	*	18 MAR 2325	136	63.	*	19 MAR 0540	211	2.	*	19 MAR 1155	286	0.
18 MAR 1715	62	137.	*	18 MAR 2330	137	62.	*	19 MAR 0545	212	2.	*	19 MAR 1200	287	0.
18 MAR 1720	63	121.	*	18 MAR 2335	138	60.	*	19 MAR 0550	213	2.	*	19 MAR 1205	288	0.
18 MAR 1725	64	107.	*	18 MAR 2340	139	58.	*	19 MAR 0555	214	2.	*	19 MAR 1210	289	0.
18 MAR 1730	65	101.	*	18 MAR 2345	140	57.	*	19 MAR 0600	215	2.	*	19 MAR 1215	290	0.
18 MAR 1735	66	113.	*	18 MAR 2350	141	55.	*	19 MAR 0605	216	2.	*	19 MAR 1220	291	0.
18 MAR 1740	67	127.	*	18 MAR 2355	142	53.	*	19 MAR 0610	217	1.	*	19 MAR 1225	292	0.

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 18 MAR 1745   68      136.   *   19 MAR 0000  143       52.   *   19 MAR 0615  218        1.   *   19 MAR 1230  293        0.
 18 MAR 1750   69      143.   *   19 MAR 0005  144       50.   *   19 MAR 0620  219        1.   *   19 MAR 1235  294        0.
 18 MAR 1755   70      174.   *   19 MAR 0010  145       49.   *   19 MAR 0625  220        1.   *   19 MAR 1240  295        0.
 18 MAR 1800   71      255.   *   19 MAR 0015  146       47.   *   19 MAR 0630  221        1.   *   19 MAR 1245  296        0.
 18 MAR 1805   72      365.   *   19 MAR 0020  147       46.   *   19 MAR 0635  222        1.   *   19 MAR 1250  297        0.
 18 MAR 1810   73      445.   *   19 MAR 0025  148       45.   *   19 MAR 0640  223        1.   *   19 MAR 1255  298        0.
 18 MAR 1815   74      502.   *   19 MAR 0030  149       43.   *   19 MAR 0645  224        1.   *   19 MAR 1300  299        0.
 18 MAR 1820   75      540.   *   19 MAR 0035  150       42.   *   19 MAR 0650  225        1.   *   19 MAR 1305  300        0.
                              *                                  *                                  *
*****************************************************************************************************************************

 PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                     6-HR       24-HR       72-HR     24.92-HR
 (CFS)         (HR)
                            (CFS)
   574.        6.42                 257.        76.         74.         74.
                          (INCHES)    .032       .038        .038        .038
                           (AC-FT)    127.       151.        151.        151.

                          CUMULATIVE AREA =   74.27 SQ MI


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          **************
          *            *
 31 KK    *     ROUTE  *      COMBINED TO B
          *            *
          **************
                        CHANNEL ROUTING TO SUB BASIN B NORMAL DEPTH CHANNEL ROUTING

 37 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

             HYDROGRAPH ROUTING DATA

 33 RS          STORAGE ROUTING
                      NSTPS          2  NUMBER OF SUBREACHES
                       ITYP       FLOW  TYPE OF INITIAL CONDITION
                     RSVRIC        .00  INITIAL CONDITION
                          X        .00 WORKING R AND D COEFFICIENT

 34 RC          NORMAL DEPTH CHANNEL
                        ANL       .025  LEFT OVERBANK N-VALUE
                       ANCH       .015  MAIN CHANNEL N-VALUE
                        ANR       .025  RIGHT OVERBANK N-VALUE
                      RLNTH      2650.  REACH LENGTH
                        SEL      .0006  ENERGY SLOPE
                      ELMAX      104.0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                   CROSS-SECTION DATA
                        --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
 36 RY        ELEVATION    104.00    101.00    100.00    102.00    101.00    101.54    101.00    104.00
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35 RX DISTANCE 100.00 150.00 152.00 156.00 158.00 185.00 212.00 216.00

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COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	.01	.02	.05	.09	.14	.44	1.07	1.96	2.93
OUTFLOW	.00	.04	.23	.67	1.44	1.93	4.97	14.55	35.34	65.96
ELEVATION	100.00	100.21	100.42	100.63	100.84	101.05	101.26	101.47	101.68	101.89
STORAGE	3.95	5.02	6.15	7.32	8.53	9.80	11.12	12.48	13.89	15.36
OUTFLOW	105.12	152.64	207.84	270.56	340.73	418.28	503.21	595.50	695.18	802.28
ELEVATION	102.11	102.32	102.53	102.74	102.95	103.16	103.37	103.58	103.79	104.00

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HYDROGRAPH AT STATION ROUTE

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DA MON HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA MON HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA MON HRMN	ORD	OUTFLOW	STORAGE	STAGE
18 MAR 1210	1	0.	.0	100.0	*	18 MAR 2030	101	223.	3.2	102.6	*	19 MAR 0450	201	8.	.3	101.3
18 MAR 1215	2	0.	.0	100.0	*	18 MAR 2035	102	211.	3.1	102.5	*	19 MAR 0455	202	8.	.3	101.3
18 MAR 1220	3	0.	.0	100.0	*	18 MAR 2040	103	201.	3.0	102.5	*	19 MAR 0500	203	7.	.3	101.3
18 MAR 1225	4	0.	.0	100.0	*	18 MAR 2045	104	191.	2.9	102.5	*	19 MAR 0505	204	7.	.3	101.3
18 MAR 1230	5	0.	.0	100.0	*	18 MAR 2050	105	182.	2.8	102.4	*	19 MAR 0510	205	6.	.3	101.3
18 MAR 1235	6	0.	.0	100.1	*	18 MAR 2055	106	174.	2.7	102.4	*	19 MAR 0515	206	6.	.3	101.3
18 MAR 1240	7	0.	.0	100.2	*	18 MAR 2100	107	166.	2.6	102.4	*	19 MAR 0520	207	6.	.2	101.3
18 MAR 1245	8	0.	.0	100.3	*	18 MAR 2105	108	158.	2.6	102.3	*	19 MAR 0525	208	5.	.2	101.3
18 MAR 1250	9	0.	.0	100.4	*	18 MAR 2110	109	151.	2.5	102.3	*	19 MAR 0530	209	5.	.2	101.3
18 MAR 1255	10	0.	.0	100.5	*	18 MAR 2115	110	145.	2.4	102.3	*	19 MAR 0535	210	5.	.2	101.3
18 MAR 1300	11	1.	.0	100.6	*	18 MAR 2120	111	139.	2.4	102.3	*	19 MAR 0540	211	5.	.2	101.3
18 MAR 1305	12	1.	.0	100.7	*	18 MAR 2125	112	134.	2.3	102.2	*	19 MAR 0545	212	5.	.2	101.2
18 MAR 1310	13	1.	.0	100.7	*	18 MAR 2130	113	128.	2.2	102.2	*	19 MAR 0550	213	4.	.2	101.2
18 MAR 1315	14	1.	.0	100.8	*	18 MAR 2135	114	123.	2.2	102.2	*	19 MAR 0555	214	4.	.2	101.2
18 MAR 1320	15	1.	.0	100.8	*	18 MAR 2140	115	118.	2.1	102.2	*	19 MAR 0600	215	4.	.2	101.2
18 MAR 1325	16	2.	.0	100.9	*	18 MAR 2145	116	114.	2.1	102.1	*	19 MAR 0605	216	4.	.2	101.2
18 MAR 1330	17	2.	.1	100.9	*	18 MAR 2150	117	111.	2.0	102.1	*	19 MAR 0610	217	4.	.2	101.2
18 MAR 1335	18	2.	.1	101.0	*	18 MAR 2155	118	108.	2.0	102.1	*	19 MAR 0615	218	4.	.2	101.2
18 MAR 1340	19	2.	.1	101.0	*	18 MAR 2200	119	105.	2.0	102.1	*	19 MAR 0620	219	3.	.1	101.2
18 MAR 1345	20	2.	.1	101.1	*	18 MAR 2205	120	103.	1.9	102.1	*	19 MAR 0625	220	3.	.1	101.1
18 MAR 1350	21	2.	.1	101.1	*	18 MAR 2210	121	100.	1.9	102.1	*	19 MAR 0630	221	3.	.1	101.1
18 MAR 1355	22	2.	.1	101.1	*	18 MAR 2215	122	98.	1.9	102.1	*	19 MAR 0635	222	3.	.1	101.1
18 MAR 1400	23	2.	.1	101.1	*	18 MAR 2220	123	96.	1.9	102.1	*	19 MAR 0640	223	3.	.1	101.1
18 MAR 1405	24	3.	.1	101.1	*	18 MAR 2225	124	94.	1.8	102.0	*	19 MAR 0645	224	3.	.1	101.1
18 MAR 1410	25	3.	.1	101.1	*	18 MAR 2230	125	92.	1.8	102.0	*	19 MAR 0650	225	3.	.1	101.1
18 MAR 1415	26	3.	.1	101.1	*	18 MAR 2235	126	90.	1.8	102.0	*	19 MAR 0655	226	2.	.1	101.1
18 MAR 1420	27	3.	.1	101.1	*	18 MAR 2240	127	88.	1.7	102.0	*	19 MAR 0700	227	2.	.1	101.1
18 MAR 1425	28	3.	.1	101.1	*	18 MAR 2245	128	85.	1.7	102.0	*	19 MAR 0705	228	2.	.1	101.1
18 MAR 1430	29	3.	.1	101.1	*	18 MAR 2250	129	83.	1.7	102.0	*	19 MAR 0710	229	2.	.1	101.1
18 MAR 1435	30	3.	.1	101.1	*	18 MAR 2255	130	82.	1.7	102.0	*	19 MAR 0715	230	2.	.1	101.1
18 MAR 1440	31	3.	.1	101.2	*	18 MAR 2300	131	80.	1.6	102.0	*	19 MAR 0720	231	2.	.1	101.0
18 MAR 1445	32	3.	.1	101.2	*	18 MAR 2305	132	78.	1.6	102.0	*	19 MAR 0725	232	2.	.1	101.0
18 MAR 1450	33	4.	.2	101.2	*	18 MAR 2310	133	76.	1.6	101.9	*	19 MAR 0730	233	2.	.1	100.9
18 MAR 1455	34	4.	.2	101.2	*	18 MAR 2315	134	74.	1.6	101.9	*	19 MAR 0735	234	2.	.0	100.9
18 MAR 1500	35	4.	.2	101.2	*	18 MAR 2320	135	72.	1.5	101.9	*	19 MAR 0740	235	1.	.0	100.8

18 MAR	1505	36	4.	.2	101.2 *	18 MAR	2325	136	70.	1.5	101.9 *	19 MAR	0745	236	1.	.0	100.8
18 MAR	1510	37	4.	.2	101.2 *	18 MAR	2330	137	68.	1.5	101.9 *	19 MAR	0750	237	1.	.0	100.7
18 MAR	1515	38	4.	.2	101.2 *	18 MAR	2335	138	67.	1.5	101.9 *	19 MAR	0755	238	1.	.0	100.7
18 MAR	1520	39	4.	.2	101.2 *	18 MAR	2340	139	65.	1.5	101.9 *	19 MAR	0800	239	1.	.0	100.7
18 MAR	1525	40	4.	.2	101.2 *	18 MAR	2345	140	64.	1.4	101.9 *	19 MAR	0805	240	1.	.0	100.7
18 MAR	1530	41	5.	.2	101.2 *	18 MAR	2350	141	62.	1.4	101.9 *	19 MAR	0810	241	1.	.0	100.6
18 MAR	1535	42	5.	.2	101.3 *	18 MAR	2355	142	61.	1.4	101.9 *	19 MAR	0815	242	1.	.0	100.6
18 MAR	1540	43	5.	.2	101.3 *	19 MAR	0000	143	59.	1.4	101.8 *	19 MAR	0820	243	1.	.0	100.6
18 MAR	1545	44	6.	.3	101.3 *	19 MAR	0005	144	57.	1.3	101.8 *	19 MAR	0825	244	1.	.0	100.6
18 MAR	1550	45	8.	.3	101.3 *	19 MAR	0010	145	56.	1.3	101.8 *	19 MAR	0830	245	1.	.0	100.6
18 MAR	1555	46	11.	.4	101.4 *	19 MAR	0015	146	54.	1.3	101.8 *	19 MAR	0835	246	0.	.0	100.5
18 MAR	1600	47	15.	.6	101.5 *	19 MAR	0020	147	53.	1.3	101.8 *	19 MAR	0840	247	0.	.0	100.5
18 MAR	1605	48	25.	.8	101.6 *	19 MAR	0025	148	51.	1.2	101.8 *	19 MAR	0845	248	0.	.0	100.5
18 MAR	1610	49	40.	1.1	101.7 *	19 MAR	0030	149	50.	1.2	101.8 *	19 MAR	0850	249	0.	.0	100.5
18 MAR	1615	50	62.	1.4	101.9 *	19 MAR	0035	150	48.	1.2	101.8 *	19 MAR	0855	250	0.	.0	100.5
18 MAR	1620	51	91.	1.8	102.0 *	19 MAR	0040	151	47.	1.2	101.8 *	19 MAR	0900	251	0.	.0	100.5
18 MAR	1625	52	123.	2.2	102.2 *	19 MAR	0045	152	46.	1.1	101.8 *	19 MAR	0905	252	0.	.0	100.5
18 MAR	1630	53	154.	2.5	102.3 *	19 MAR	0050	153	44.	1.1	101.7 *	19 MAR	0910	253	0.	.0	100.5
18 MAR	1635	54	182.	2.8	102.4 *	19 MAR	0055	154	43.	1.1	101.7 *	19 MAR	0915	254	0.	.0	100.5
18 MAR	1640	55	202.	3.0	102.5 *	19 MAR	0100	155	42.	1.1	101.7 *	19 MAR	0920	255	0.	.0	100.5
18 MAR	1645	56	215.	3.1	102.5 *	19 MAR	0105	156	40.	1.1	101.7 *	19 MAR	0925	256	0.	.0	100.5
18 MAR	1650	57	220.	3.2	102.6 *	19 MAR	0110	157	39.	1.0	101.7 *	19 MAR	0930	257	0.	.0	100.5
18 MAR	1655	58	219.	3.2	102.6 *	19 MAR	0115	158	38.	1.0	101.7 *	19 MAR	0935	258	0.	.0	100.5
18 MAR	1700	59	214.	3.1	102.5 *	19 MAR	0120	159	37.	1.0	101.7 *	19 MAR	0940	259	0.	.0	100.5
18 MAR	1705	60	204.	3.0	102.5 *	19 MAR	0125	160	36.	1.0	101.7 *	19 MAR	0945	260	0.	.0	100.5
18 MAR	1710	61	193.	2.9	102.5 *	19 MAR	0130	161	35.	1.0	101.7 *	19 MAR	0950	261	0.	.0	100.5
18 MAR	1715	62	180.	2.8	102.4 *	19 MAR	0135	162	34.	1.0	101.7 *	19 MAR	0955	262	0.	.0	100.5
18 MAR	1720	63	166.	2.6	102.4 *	19 MAR	0140	163	34.	.9	101.7 *	19 MAR	1000	263	0.	.0	100.5
18 MAR	1725	64	152.	2.5	102.3 *	19 MAR	0145	164	33.	.9	101.7 *	19 MAR	1005	264	0.	.0	100.5
18 MAR	1730	65	139.	2.4	102.3 *	19 MAR	0150	165	32.	.9	101.7 *	19 MAR	1010	265	0.	.0	100.5
18 MAR	1735	66	128.	2.2	102.2 *	19 MAR	0155	166	31.	.9	101.6 *	19 MAR	1015	266	0.	.0	100.5
18 MAR	1740	67	122.	2.2	102.2 *	19 MAR	0200	167	30.	.9	101.6 *	19 MAR	1020	267	0.	.0	100.5
18 MAR	1745	68	121.	2.2	102.2 *	19 MAR	0205	168	30.	.9	101.6 *	19 MAR	1025	268	0.	.0	100.5
18 MAR	1750	69	124.	2.2	102.2 *	19 MAR	0210	169	29.	.8	101.6 *	19 MAR	1030	269	0.	.0	100.5
18 MAR	1755	70	130.	2.3	102.2 *	19 MAR	0215	170	28.	.8	101.6 *	19 MAR	1035	270	0.	.0	100.5
18 MAR	1800	71	145.	2.4	102.3 *	19 MAR	0220	171	27.	.8	101.6 *	19 MAR	1040	271	0.	.0	100.5
18 MAR	1805	72	179.	2.8	102.4 *	19 MAR	0225	172	26.	.8	101.6 *	19 MAR	1045	272	0.	.0	100.5
18 MAR	1810	73	238.	3.4	102.6 *	19 MAR	0230	173	26.	.8	101.6 *	19 MAR	1050	273	0.	.0	100.5
18 MAR	1815	74	315.	4.0	102.9 *	19 MAR	0235	174	25.	.8	101.6 *	19 MAR	1055	274	0.	.0	100.5
18 MAR	1820	75	393.	4.7	103.1 *	19 MAR	0240	175	24.	.7	101.6 *	19 MAR	1100	275	0.	.0	100.5
18 MAR	1825	76	460.	5.2	103.3 *	19 MAR	0245	176	23.	.7	101.6 *	19 MAR	1105	276	0.	.0	100.5
18 MAR	1830	77	508.	5.6	103.4 *	19 MAR	0250	177	22.	.7	101.6 *	19 MAR	1110	277	0.	.0	100.5
18 MAR	1835	78	540.	5.8	103.5 *	19 MAR	0255	178	21.	.7	101.5 *	19 MAR	1115	278	0.	.0	100.5
18 MAR	1840	79	557.	6.0	103.5 *	19 MAR	0300	179	20.	.7	101.5 *	19 MAR	1120	279	0.	.0	100.5
18 MAR	1845	80	564.	6.0	103.5 *	19 MAR	0305	180	20.	.6	101.5 *	19 MAR	1125	280	0.	.0	100.5
18 MAR	1850	81	562.	6.0	103.5 *	19 MAR	0310	181	19.	.6	101.5 *	19 MAR	1130	281	0.	.0	100.5
18 MAR	1855	82	554.	5.9	103.5 *	19 MAR	0315	182	18.	.6	101.5 *	19 MAR	1135	282	0.	.0	100.5
18 MAR	1900	83	541.	5.8	103.5 *	19 MAR	0320	183	17.	.6	101.5 *	19 MAR	1140	283	0.	.0	100.5
18 MAR	1905	84	526.	5.7	103.4 *	19 MAR	0325	184	16.	.6	101.5 *	19 MAR	1145	284	0.	.0	100.5
18 MAR	1910	85	508.	5.6	103.4 *	19 MAR	0330	185	16.	.6	101.5 *	19 MAR	1150	285	0.	.0	100.5
18 MAR	1915	86	489.	5.4	103.3 *	19 MAR	0335	186	15.	.5	101.5 *	19 MAR	1155	286	0.	.0	100.5
18 MAR	1920	87	469.	5.3	103.3 *	19 MAR	0340	187	14.	.5	101.5 *	19 MAR	1200	287	0.	.0	100.5
18 MAR	1925	88	448.	5.1	103.2 *	19 MAR	0345	188	14.	.5	101.5 *	19 MAR	1205	288	0.	.0	100.5
18 MAR	1930	89	427.	5.0	103.2 *	19 MAR	0350	189	14.	.5	101.5 *	19 MAR	1210	289	0.	.0	100.5
18 MAR	1935	90	408.	4.8	103.1 *	19 MAR	0355	190	13.	.5	101.4 *	19 MAR	1215	290	0.	.0	100.5
18 MAR	1940	91	388.	4.7	103.1 *	19 MAR	0400	191	13.	.5	101.4 *	19 MAR	1220	291	0.	.0	100.5
18 MAR	1945	92	368.	4.5	103.0 *	19 MAR	0405	192	12.	.5	101.4 *	19 MAR	1225	292	0.	.0	100.5
18 MAR	1950	93	349.	4.3	103.0 *	19 MAR	0410	193	12.	.4	101.4 *	19 MAR	1230	293	0.	.0	100.5

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18 MAR 1955  94    330.    4.2   102.9 * 19 MAR 0415 194    11.     .4   101.4 * 19 MAR 1235 294     0.     .0   100.5
18 MAR 2000  95    312.    4.0   102.9 * 19 MAR 0420 195    11.     .4   101.4 * 19 MAR 1240 295     0.     .0   100.5
18 MAR 2005  96    295.    3.9   102.8 * 19 MAR 0425 196    10.     .4   101.4 * 19 MAR 1245 296     0.     .0   100.5
18 MAR 2010  97    278.    3.7   102.8 * 19 MAR 0430 197    10.     .4   101.4 * 19 MAR 1250 297     0.     .0   100.5
18 MAR 2015  98    263.    3.6   102.7 * 19 MAR 0435 198     9.     .4   101.4 * 19 MAR 1255 298     0.     .0   100.5
18 MAR 2020  99    249.    3.5   102.7 * 19 MAR 0440 199     9.     .3   101.3 * 19 MAR 1300 299     0.     .0   100.5
18 MAR 2025 100    236.    3.3   102.6 * 19 MAR 0445 200     8.     .3   101.3 * 19 MAR 1305 300     0.     .0   100.4
                                       *                                         *
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 PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                     6-HR       24-HR       72-HR     24.92-HR
  (CFS)       (HR)
                          (CFS)
    564.      6.58                 255.        76.         74.         74.
                        (INCHES)    .032       .038        .038        .038
                         (AC-FT)    126.       151.        151.        151.

PEAK STORAGE   TIME                         MAXIMUM AVERAGE STORAGE
                                     6-HR       24-HR       72-HR     24.92-HR
 (AC-FT)      (HR)
      6.      6.58                   3.         1.          1.          1.

 PEAK STAGE    TIME                          MAXIMUM AVERAGE STAGE
                                     6-HR       24-HR       72-HR     24.92-HR
  (FEET)      (HR)
   103.51     6.58                102.63      101.52      101.47      101.47

                        CUMULATIVE AREA =   74.27 SQ MI


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            **************
            *            *
  38 KK     *    RES32E  *
            *            *
            **************
 -----DSS--- ZREAD Unit  71; Vers.    1:  /MV100-6/RES32E/FLOW/18MAR1997/5MIN//
 -----DSS--- ZREAD Unit  71; Vers.    1:  /MV100-6/RES32E/FLOW/18MAR1997/5MIN//
 -----DSS--- ZREAD Unit  71; Vers.    1:  /MV100-6/RES32E/FLOW/19MAR1997/5MIN//

****** WARNING RDTIMS - MISSING FLOW                IN DSS FILE - READ AND INTERPOLATED VALUES SET TO ZERO ******


  40 KO          OUTPUT CONTROL VARIABLES
                       IPRNT          2  PRINT CONTROL
                       IPLOT          0  PLOT CONTROL
                       QSCAL         0.  HYDROGRAPH PLOT SCALE

               SUBBASIN RUNOFF DATA

  29 BA          SUBBASIN CHARACTERISTICS
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TAREA .25 SUBBASIN AREA

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HYDROGRAPH AT STATION RES32E

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DA MON HRMN	ORD	FLOW	*	DA MON HRMN	ORD	FLOW	*	DA MON HRMN	ORD	FLOW	*	DA MON HRMN	ORD	FLOW
18 MAR 1210	1	0.	*	18 MAR 1825	76	128.	*	19 MAR 0040	151	0.	*	19 MAR 0655	226	0.
18 MAR 1215	2	0.	*	18 MAR 1830	77	120.	*	19 MAR 0045	152	0.	*	19 MAR 0700	227	0.
18 MAR 1220	3	0.	*	18 MAR 1835	78	112.	*	19 MAR 0050	153	0.	*	19 MAR 0705	228	0.
18 MAR 1225	4	0.	*	18 MAR 1840	79	104.	*	19 MAR 0055	154	0.	*	19 MAR 0710	229	0.
18 MAR 1230	5	0.	*	18 MAR 1845	80	97.	*	19 MAR 0100	155	0.	*	19 MAR 0715	230	0.
18 MAR 1235	6	0.	*	18 MAR 1850	81	89.	*	19 MAR 0105	156	0.	*	19 MAR 0720	231	0.
18 MAR 1240	7	0.	*	18 MAR 1855	82	82.	*	19 MAR 0110	157	0.	*	19 MAR 0725	232	0.
18 MAR 1245	8	0.	*	18 MAR 1900	83	76.	*	19 MAR 0115	158	0.	*	19 MAR 0730	233	0.
18 MAR 1250	9	0.	*	18 MAR 1905	84	70.	*	19 MAR 0120	159	0.	*	19 MAR 0735	234	0.
18 MAR 1255	10	0.	*	18 MAR 1910	85	64.	*	19 MAR 0125	160	0.	*	19 MAR 0740	235	0.
18 MAR 1300	11	0.	*	18 MAR 1915	86	59.	*	19 MAR 0130	161	0.	*	19 MAR 0745	236	0.
18 MAR 1305	12	0.	*	18 MAR 1920	87	55.	*	19 MAR 0135	162	0.	*	19 MAR 0750	237	0.
18 MAR 1310	13	0.	*	18 MAR 1925	88	51.	*	19 MAR 0140	163	0.	*	19 MAR 0755	238	0.
18 MAR 1315	14	0.	*	18 MAR 1930	89	47.	*	19 MAR 0145	164	0.	*	19 MAR 0800	239	0.
18 MAR 1320	15	0.	*	18 MAR 1935	90	43.	*	19 MAR 0150	165	0.	*	19 MAR 0805	240	0.
18 MAR 1325	16	0.	*	18 MAR 1940	91	39.	*	19 MAR 0155	166	0.	*	19 MAR 0810	241	0.
18 MAR 1330	17	0.	*	18 MAR 1945	92	36.	*	19 MAR 0200	167	0.	*	19 MAR 0815	242	0.
18 MAR 1335	18	0.	*	18 MAR 1950	93	32.	*	19 MAR 0205	168	0.	*	19 MAR 0820	243	0.
18 MAR 1340	19	0.	*	18 MAR 1955	94	29.	*	19 MAR 0210	169	0.	*	19 MAR 0825	244	0.
18 MAR 1345	20	0.	*	18 MAR 2000	95	27.	*	19 MAR 0215	170	0.	*	19 MAR 0830	245	0.
18 MAR 1350	21	0.	*	18 MAR 2005	96	24.	*	19 MAR 0220	171	0.	*	19 MAR 0835	246	0.
18 MAR 1355	22	0.	*	18 MAR 2010	97	22.	*	19 MAR 0225	172	0.	*	19 MAR 0840	247	0.
18 MAR 1400	23	0.	*	18 MAR 2015	98	19.	*	19 MAR 0230	173	0.	*	19 MAR 0845	248	0.
18 MAR 1405	24	0.	*	18 MAR 2020	99	17.	*	19 MAR 0235	174	0.	*	19 MAR 0850	249	0.
18 MAR 1410	25	0.	*	18 MAR 2025	100	16.	*	19 MAR 0240	175	0.	*	19 MAR 0855	250	0.
18 MAR 1415	26	0.	*	18 MAR 2030	101	14.	*	19 MAR 0245	176	0.	*	19 MAR 0900	251	0.
18 MAR 1420	27	0.	*	18 MAR 2035	102	13.	*	19 MAR 0250	177	0.	*	19 MAR 0905	252	0.
18 MAR 1425	28	0.	*	18 MAR 2040	103	12.	*	19 MAR 0255	178	0.	*	19 MAR 0910	253	0.
18 MAR 1430	29	0.	*	18 MAR 2045	104	11.	*	19 MAR 0300	179	0.	*	19 MAR 0915	254	0.
18 MAR 1435	30	0.	*	18 MAR 2050	105	10.	*	19 MAR 0305	180	0.	*	19 MAR 0920	255	0.
18 MAR 1440	31	0.	*	18 MAR 2055	106	9.	*	19 MAR 0310	181	0.	*	19 MAR 0925	256	0.
18 MAR 1445	32	0.	*	18 MAR 2100	107	8.	*	19 MAR 0315	182	0.	*	19 MAR 0930	257	0.
18 MAR 1450	33	0.	*	18 MAR 2105	108	7.	*	19 MAR 0320	183	0.	*	19 MAR 0935	258	0.
18 MAR 1455	34	0.	*	18 MAR 2110	109	6.	*	19 MAR 0325	184	0.	*	19 MAR 0940	259	0.
18 MAR 1500	35	0.	*	18 MAR 2115	110	5.	*	19 MAR 0330	185	0.	*	19 MAR 0945	260	0.
18 MAR 1505	36	0.	*	18 MAR 2120	111	4.	*	19 MAR 0335	186	0.	*	19 MAR 0950	261	0.
18 MAR 1510	37	0.	*	18 MAR 2125	112	3.	*	19 MAR 0340	187	0.	*	19 MAR 0955	262	0.
18 MAR 1515	38	0.	*	18 MAR 2130	113	2.	*	19 MAR 0345	188	0.	*	19 MAR 1000	263	0.
18 MAR 1520	39	0.	*	18 MAR 2135	114	1.	*	19 MAR 0350	189	0.	*	19 MAR 1005	264	0.
18 MAR 1525	40	0.	*	18 MAR 2140	115	1.	*	19 MAR 0355	190	0.	*	19 MAR 1010	265	0.
18 MAR 1530	41	0.	*	18 MAR 2145	116	1.	*	19 MAR 0400	191	0.	*	19 MAR 1015	266	0.
18 MAR 1535	42	0.	*	18 MAR 2150	117	1.	*	19 MAR 0405	192	0.	*	19 MAR 1020	267	0.
18 MAR 1540	43	0.	*	18 MAR 2155	118	1.	*	19 MAR 0410	193	0.	*	19 MAR 1025	268	0.
18 MAR 1545	44	0.	*	18 MAR 2200	119	1.	*	19 MAR 0415	194	0.	*	19 MAR 1030	269	0.
18 MAR 1550	45	0.	*	18 MAR 2205	120	1.	*	19 MAR 0420	195	0.	*	19 MAR 1035	270	0.
18 MAR 1555	46	0.	*	18 MAR 2210	121	1.	*	19 MAR 0425	196	0.	*	19 MAR 1040	271	0.

18 MAR 1600	47	0.	*	18 MAR 2215	122	1.	*	19 MAR 0430	197	0.	*	19 MAR 1045	272	0.
18 MAR 1605	48	0.	*	18 MAR 2220	123	1.	*	19 MAR 0435	198	0.	*	19 MAR 1050	273	0.
18 MAR 1610	49	0.	*	18 MAR 2225	124	1.	*	19 MAR 0440	199	0.	*	19 MAR 1055	274	0.
18 MAR 1615	50	0.	*	18 MAR 2230	125	0.	*	19 MAR 0445	200	0.	*	19 MAR 1100	275	0.
18 MAR 1620	51	0.	*	18 MAR 2235	126	0.	*	19 MAR 0450	201	0.	*	19 MAR 1105	276	0.
18 MAR 1625	52	0.	*	18 MAR 2240	127	0.	*	19 MAR 0455	202	0.	*	19 MAR 1110	277	0.
18 MAR 1630	53	0.	*	18 MAR 2245	128	0.	*	19 MAR 0500	203	0.	*	19 MAR 1115	278	0.
18 MAR 1635	54	0.	*	18 MAR 2250	129	0.	*	19 MAR 0505	204	0.	*	19 MAR 1120	279	0.
18 MAR 1640	55	9.	*	18 MAR 2255	130	0.	*	19 MAR 0510	205	0.	*	19 MAR 1125	280	0.
18 MAR 1645	56	13.	*	18 MAR 2300	131	0.	*	19 MAR 0515	206	0.	*	19 MAR 1130	281	0.
18 MAR 1650	57	15.	*	18 MAR 2305	132	0.	*	19 MAR 0520	207	0.	*	19 MAR 1135	282	0.
18 MAR 1655	58	114.	*	18 MAR 2310	133	0.	*	19 MAR 0525	208	0.	*	19 MAR 1140	283	0.
18 MAR 1700	59	156.	*	18 MAR 2315	134	0.	*	19 MAR 0530	209	0.	*	19 MAR 1145	284	0.
18 MAR 1705	60	172.	*	18 MAR 2320	135	0.	*	19 MAR 0535	210	0.	*	19 MAR 1150	285	0.
18 MAR 1710	61	177.	*	18 MAR 2325	136	0.	*	19 MAR 0540	211	0.	*	19 MAR 1155	286	0.
18 MAR 1715	62	181.	*	18 MAR 2330	137	0.	*	19 MAR 0545	212	0.	*	19 MAR 1200	287	0.
18 MAR 1720	63	186.	*	18 MAR 2335	138	0.	*	19 MAR 0550	213	0.	*	19 MAR 1205	288	0.
18 MAR 1725	64	188.	*	18 MAR 2340	139	0.	*	19 MAR 0555	214	0.	*	19 MAR 1210	289	0.
18 MAR 1730	65	187.	*	18 MAR 2345	140	0.	*	19 MAR 0600	215	0.	*	19 MAR 1215	290	0.
18 MAR 1735	66	184.	*	18 MAR 2350	141	0.	*	19 MAR 0605	216	0.	*	19 MAR 1220	291	0.
18 MAR 1740	67	180.	*	18 MAR 2355	142	0.	*	19 MAR 0610	217	0.	*	19 MAR 1225	292	0.
18 MAR 1745	68	175.	*	19 MAR 0000	143	0.	*	19 MAR 0615	218	0.	*	19 MAR 1230	293	0.
18 MAR 1750	69	170.	*	19 MAR 0005	144	0.	*	19 MAR 0620	219	0.	*	19 MAR 1235	294	0.
18 MAR 1755	70	166.	*	19 MAR 0010	145	0.	*	19 MAR 0625	220	0.	*	19 MAR 1240	295	0.
18 MAR 1800	71	162.	*	19 MAR 0015	146	0.	*	19 MAR 0630	221	0.	*	19 MAR 1245	296	0.
18 MAR 1805	72	157.	*	19 MAR 0020	147	0.	*	19 MAR 0635	222	0.	*	19 MAR 1250	297	0.
18 MAR 1810	73	151.	*	19 MAR 0025	148	0.	*	19 MAR 0640	223	0.	*	19 MAR 1255	298	0.
18 MAR 1815	74	144.	*	19 MAR 0030	149	0.	*	19 MAR 0645	224	0.	*	19 MAR 1300	299	0.
18 MAR 1820	75	136.	*	19 MAR 0035	150	0.	*	19 MAR 0650	225	0.	*	19 MAR 1305	300	0.
			*				*				*			

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
188.	5.25		64.	16.	15.	15.
		(INCHES)	2.346	2.355	2.355	2.355
		(AC-FT)	32.	32.	32.	32.

CUMULATIVE AREA = .25 SQ MI

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          *            *
41 KK     *     B      *
          *            *
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SUB-BASIN B
6-HOUR RAINFALL, PATTERN NO. 2.00 WAS USED TO FIND TC & R FOR THIS BASIN
THIS BASIN USED RAINFALL REDUCTION FACTOR OF .975
L = 1.00 Kb = .050 Adj. Slope = 6.0

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51 KO        OUTPUT CONTROL VARIABLES
                 IPRNT          2  PRINT CONTROL
                 IPLOT          0  PLOT CONTROL
                 QSCAL         0.  HYDROGRAPH PLOT SCALE

           SUBBASIN RUNOFF DATA

46 BA        SUBBASIN CHARACTERISTICS
                 TAREA        .32  SUBBASIN AREA

             PRECIPITATION DATA

18 PB            STORM       2.91  BASIN TOTAL PRECIPITATION

18 PI          INCREMENTAL PRECIPITATION PATTERN
                 .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                 .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                 .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                 .00      .00      .00      .01      .01      .01      .01      .01      .01      .03
                 .03      .03      .06      .06      .06      .08      .08      .08      .05      .05
                 .05      .02      .02      .02      .01      .01      .01      .00      .00      .00
                 .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
                 .00      .00

47 LG        GREEN AND AMPT LOSS RATE
                 STRTL        .50  STARTING LOSS
                   DTH        .24  MOISTURE DEFICIT
                  PSIF       6.40  WETTING FRONT SUCTION
                 XKSAT        .14  HYDRAULIC CONDUCTIVITY
                 RTIMP        .00  PERCENT IMPERVIOUS AREA

48 UC        CLARK UNITGRAPH
                    TC       1.41  TIME OF CONCENTRATION
                     R       1.04  STORAGE COEFFICIENT

49 UA        ACCUMULATED-AREA VS. TIME,  11 ORDINATES
                  .0       3.0      5.0      8.0     12.0     20.0     43.0     75.0     90.0     96.0
               100.0

                                          ***

                                   UNIT HYDROGRAPH PARAMETERS
                              CLARK   TC=  1.41 HR,       R=  1.04 HR
                              SNYDER  TP=  1.19 HR,      CP=   .73

                                   UNIT HYDROGRAPH
                              77 END-OF-PERIOD ORDINATES
          2.       5.       7.       9.      12.      15.      18.      24.      36.      56.
         82.     109.     126.     130.     130.     126.     120.     113.     104.      96.
         89.      82.      76.      70.      64.      59.      55.      51.      47.      43.
         40.      37.      34.      31.      29.      27.      25.      23.      21.      19.
         18.      16.      15.      14.      13.      12.      11.      10.       9.       9.
          8.       7.       7.       6.       6.       5.       5.       5.       4.       4.
          4.       3.       3.       3.       3.       2.       2.       2.       2.       2.
          2.       1.       1.       1.       1.       1.       1.
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HYDROGRAPH AT STATION B

DA MON HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	DA MON HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
18 MAR 1210	1	.00	.00	.00	0.	19 MAR 0040	151	.00	.00	.00	0.
18 MAR 1215	2	.01	.01	.00	0.	19 MAR 0045	152	.00	.00	.00	0.
18 MAR 1220	3	.01	.01	.00	0.	19 MAR 0050	153	.00	.00	.00	0.
18 MAR 1225	4	.01	.01	.00	0.	19 MAR 0055	154	.00	.00	.00	0.
18 MAR 1230	5	.01	.01	.00	0.	19 MAR 0100	155	.00	.00	.00	0.
18 MAR 1235	6	.01	.01	.00	0.	19 MAR 0105	156	.00	.00	.00	0.
18 MAR 1240	7	.01	.01	.00	0.	19 MAR 0110	157	.00	.00	.00	0.
18 MAR 1245	8	.01	.01	.00	0.	19 MAR 0115	158	.00	.00	.00	0.
18 MAR 1250	9	.01	.01	.00	0.	19 MAR 0120	159	.00	.00	.00	0.
18 MAR 1255	10	.01	.01	.00	0.	19 MAR 0125	160	.00	.00	.00	0.
18 MAR 1300	11	.01	.01	.00	0.	19 MAR 0130	161	.00	.00	.00	0.
18 MAR 1305	12	.01	.01	.00	0.	19 MAR 0135	162	.00	.00	.00	0.
18 MAR 1310	13	.01	.01	.00	0.	19 MAR 0140	163	.00	.00	.00	0.
18 MAR 1315	14	.01	.01	.00	0.	19 MAR 0145	164	.00	.00	.00	0.
18 MAR 1320	15	.01	.01	.00	0.	19 MAR 0150	165	.00	.00	.00	0.
18 MAR 1325	16	.01	.01	.00	0.	19 MAR 0155	166	.00	.00	.00	0.
18 MAR 1330	17	.01	.01	.00	0.	19 MAR 0200	167	.00	.00	.00	0.
18 MAR 1335	18	.01	.01	.00	0.	19 MAR 0205	168	.00	.00	.00	0.
18 MAR 1340	19	.01	.01	.00	0.	19 MAR 0210	169	.00	.00	.00	0.
18 MAR 1345	20	.01	.01	.00	0.	19 MAR 0215	170	.00	.00	.00	0.
18 MAR 1350	21	.01	.01	.00	0.	19 MAR 0220	171	.00	.00	.00	0.
18 MAR 1355	22	.01	.01	.00	0.	19 MAR 0225	172	.00	.00	.00	0.
18 MAR 1400	23	.01	.01	.00	0.	19 MAR 0230	173	.00	.00	.00	0.
18 MAR 1405	24	.01	.01	.00	0.	19 MAR 0235	174	.00	.00	.00	0.
18 MAR 1410	25	.01	.01	.00	0.	19 MAR 0240	175	.00	.00	.00	0.
18 MAR 1415	26	.01	.01	.00	0.	19 MAR 0245	176	.00	.00	.00	0.
18 MAR 1420	27	.01	.01	.00	0.	19 MAR 0250	177	.00	.00	.00	0.
18 MAR 1425	28	.01	.01	.00	0.	19 MAR 0255	178	.00	.00	.00	0.
18 MAR 1430	29	.01	.01	.00	0.	19 MAR 0300	179	.00	.00	.00	0.
18 MAR 1435	30	.01	.01	.00	0.	19 MAR 0305	180	.00	.00	.00	0.
18 MAR 1440	31	.01	.01	.00	0.	19 MAR 0310	181	.00	.00	.00	0.
18 MAR 1445	32	.01	.01	.00	0.	19 MAR 0315	182	.00	.00	.00	0.
18 MAR 1450	33	.01	.01	.00	0.	19 MAR 0320	183	.00	.00	.00	0.
18 MAR 1455	34	.01	.01	.00	0.	19 MAR 0325	184	.00	.00	.00	0.
18 MAR 1500	35	.02	.02	.00	0.	19 MAR 0330	185	.00	.00	.00	0.
18 MAR 1505	36	.02	.02	.00	0.	19 MAR 0335	186	.00	.00	.00	0.
18 MAR 1510	37	.02	.02	.00	0.	19 MAR 0340	187	.00	.00	.00	0.
18 MAR 1515	38	.04	.04	.00	0.	19 MAR 0345	188	.00	.00	.00	0.
18 MAR 1520	39	.04	.04	.00	0.	19 MAR 0350	189	.00	.00	.00	0.
18 MAR 1525	40	.04	.04	.00	0.	19 MAR 0355	190	.00	.00	.00	0.
18 MAR 1530	41	.09	.09	.00	0.	19 MAR 0400	191	.00	.00	.00	0.
18 MAR 1535	42	.09	.09	.00	0.	19 MAR 0405	192	.00	.00	.00	0.
18 MAR 1540	43	.09	.09	.00	0.	19 MAR 0410	193	.00	.00	.00	0.
18 MAR 1545	44	.19	.07	.12	0.	19 MAR 0415	194	.00	.00	.00	0.
18 MAR 1550	45	.19	.06	.13	1.	19 MAR 0420	195	.00	.00	.00	0.
18 MAR 1555	46	.19	.05	.14	2.	19 MAR 0425	196	.00	.00	.00	0.
18 MAR 1600	47	.23	.05	.18	3.	19 MAR 0430	197	.00	.00	.00	0.
18 MAR 1605	48	.23	.05	.18	5.	19 MAR 0435	198	.00	.00	.00	0.
18 MAR 1610	49	.23	.04	.19	7.	19 MAR 0440	199	.00	.00	.00	0.
18 MAR 1615	50	.14	.04	.10	10.	19 MAR 0445	200	.00	.00	.00	0.
18 MAR 1620	51	.14	.04	.10	13.	19 MAR 0450	201	.00	.00	.00	0.
18 MAR 1625	52	.14	.04	.10	18.	19 MAR 0455	202	.00	.00	.00	0.

18 MAR 1630	53	.06	.04	.03	25.	*	19 MAR 0500	203	.00	.00	.00	0.
18 MAR 1635	54	.06	.03	.03	35.	*	19 MAR 0505	204	.00	.00	.00	0.
18 MAR 1640	55	.06	.03	.03	49.	*	19 MAR 0510	205	.00	.00	.00	0.
18 MAR 1645	56	.04	.03	.01	66.	*	19 MAR 0515	206	.00	.00	.00	0.
18 MAR 1650	57	.04	.03	.01	85.	*	19 MAR 0520	207	.00	.00	.00	0.
18 MAR 1655	58	.04	.03	.01	103.	*	19 MAR 0525	208	.00	.00	.00	0.
18 MAR 1700	59	.01	.01	.00	120.	*	19 MAR 0530	209	.00	.00	.00	0.
18 MAR 1705	60	.01	.01	.00	134.	*	19 MAR 0535	210	.00	.00	.00	0.
18 MAR 1710	61	.01	.01	.00	143.	*	19 MAR 0540	211	.00	.00	.00	0.
18 MAR 1715	62	.01	.01	.00	149.	*	19 MAR 0545	212	.00	.00	.00	0.
18 MAR 1720	63	.01	.01	.00	150.	*	19 MAR 0550	213	.00	.00	.00	0.
18 MAR 1725	64	.01	.01	.00	148.	*	19 MAR 0555	214	.00	.00	.00	0.
18 MAR 1730	65	.01	.01	.00	144.	*	19 MAR 0600	215	.00	.00	.00	0.
18 MAR 1735	66	.01	.01	.00	137.	*	19 MAR 0605	216	.00	.00	.00	0.
18 MAR 1740	67	.01	.01	.00	130.	*	19 MAR 0610	217	.00	.00	.00	0.
18 MAR 1745	68	.01	.01	.00	122.	*	19 MAR 0615	218	.00	.00	.00	0.
18 MAR 1750	69	.01	.01	.00	113.	*	19 MAR 0620	219	.00	.00	.00	0.
18 MAR 1755	70	.01	.01	.00	105.	*	19 MAR 0625	220	.00	.00	.00	0.
18 MAR 1800	71	.01	.01	.00	98.	*	19 MAR 0630	221	.00	.00	.00	0.
18 MAR 1805	72	.01	.01	.00	90.	*	19 MAR 0635	222	.00	.00	.00	0.
18 MAR 1810	73	.01	.01	.00	83.	*	19 MAR 0640	223	.00	.00	.00	0.
18 MAR 1815	74	.00	.00	.00	77.	*	19 MAR 0645	224	.00	.00	.00	0.
18 MAR 1820	75	.00	.00	.00	71.	*	19 MAR 0650	225	.00	.00	.00	0.
18 MAR 1825	76	.00	.00	.00	66.	*	19 MAR 0655	226	.00	.00	.00	0.
18 MAR 1830	77	.00	.00	.00	60.	*	19 MAR 0700	227	.00	.00	.00	0.
18 MAR 1835	78	.00	.00	.00	56.	*	19 MAR 0705	228	.00	.00	.00	0.
18 MAR 1840	79	.00	.00	.00	52.	*	19 MAR 0710	229	.00	.00	.00	0.
18 MAR 1845	80	.00	.00	.00	48.	*	19 MAR 0715	230	.00	.00	.00	0.
18 MAR 1850	81	.00	.00	.00	44.	*	19 MAR 0720	231	.00	.00	.00	0.
18 MAR 1855	82	.00	.00	.00	40.	*	19 MAR 0725	232	.00	.00	.00	0.
18 MAR 1900	83	.00	.00	.00	37.	*	19 MAR 0730	233	.00	.00	.00	0.
18 MAR 1905	84	.00	.00	.00	34.	*	19 MAR 0735	234	.00	.00	.00	0.
18 MAR 1910	85	.00	.00	.00	32.	*	19 MAR 0740	235	.00	.00	.00	0.
18 MAR 1915	86	.00	.00	.00	29.	*	19 MAR 0745	236	.00	.00	.00	0.
18 MAR 1920	87	.00	.00	.00	27.	*	19 MAR 0750	237	.00	.00	.00	0.
18 MAR 1925	88	.00	.00	.00	25.	*	19 MAR 0755	238	.00	.00	.00	0.
18 MAR 1930	89	.00	.00	.00	23.	*	19 MAR 0800	239	.00	.00	.00	0.
18 MAR 1935	90	.00	.00	.00	21.	*	19 MAR 0805	240	.00	.00	.00	0.
18 MAR 1940	91	.00	.00	.00	20.	*	19 MAR 0810	241	.00	.00	.00	0.
18 MAR 1945	92	.00	.00	.00	18.	*	19 MAR 0815	242	.00	.00	.00	0.
18 MAR 1950	93	.00	.00	.00	17.	*	19 MAR 0820	243	.00	.00	.00	0.
18 MAR 1955	94	.00	.00	.00	15.	*	19 MAR 0825	244	.00	.00	.00	0.
18 MAR 2000	95	.00	.00	.00	14.	*	19 MAR 0830	245	.00	.00	.00	0.
18 MAR 2005	96	.00	.00	.00	13.	*	19 MAR 0835	246	.00	.00	.00	0.
18 MAR 2010	97	.00	.00	.00	12.	*	19 MAR 0840	247	.00	.00	.00	0.
18 MAR 2015	98	.00	.00	.00	11.	*	19 MAR 0845	248	.00	.00	.00	0.
18 MAR 2020	99	.00	.00	.00	10.	*	19 MAR 0850	249	.00	.00	.00	0.
18 MAR 2025	100	.00	.00	.00	10.	*	19 MAR 0855	250	.00	.00	.00	0.
18 MAR 2030	101	.00	.00	.00	9.	*	19 MAR 0900	251	.00	.00	.00	0.
18 MAR 2035	102	.00	.00	.00	8.	*	19 MAR 0905	252	.00	.00	.00	0.
18 MAR 2040	103	.00	.00	.00	7.	*	19 MAR 0910	253	.00	.00	.00	0.
18 MAR 2045	104	.00	.00	.00	7.	*	19 MAR 0915	254	.00	.00	.00	0.
18 MAR 2050	105	.00	.00	.00	6.	*	19 MAR 0920	255	.00	.00	.00	0.
18 MAR 2055	106	.00	.00	.00	6.	*	19 MAR 0925	256	.00	.00	.00	0.
18 MAR 2100	107	.00	.00	.00	5.	*	19 MAR 0930	257	.00	.00	.00	0.
18 MAR 2105	108	.00	.00	.00	5.	*	19 MAR 0935	258	.00	.00	.00	0.
18 MAR 2110	109	.00	.00	.00	5.	*	19 MAR 0940	259	.00	.00	.00	0.
18 MAR 2115	110	.00	.00	.00	4.	*	19 MAR 0945	260	.00	.00	.00	0.

18 MAR 2120	111	.00	.00	.00	4.	*	19 MAR 0950	261	.00	.00	.00	0.
18 MAR 2125	112	.00	.00	.00	4.	*	19 MAR 0955	262	.00	.00	.00	0.
18 MAR 2130	113	.00	.00	.00	3.	*	19 MAR 1000	263	.00	.00	.00	0.
18 MAR 2135	114	.00	.00	.00	3.	*	19 MAR 1005	264	.00	.00	.00	0.
18 MAR 2140	115	.00	.00	.00	3.	*	19 MAR 1010	265	.00	.00	.00	0.
18 MAR 2145	116	.00	.00	.00	3.	*	19 MAR 1015	266	.00	.00	.00	0.
18 MAR 2150	117	.00	.00	.00	2.	*	19 MAR 1020	267	.00	.00	.00	0.
18 MAR 2155	118	.00	.00	.00	2.	*	19 MAR 1025	268	.00	.00	.00	0.
18 MAR 2200	119	.00	.00	.00	2.	*	19 MAR 1030	269	.00	.00	.00	0.
18 MAR 2205	120	.00	.00	.00	2.	*	19 MAR 1035	270	.00	.00	.00	0.
18 MAR 2210	121	.00	.00	.00	2.	*	19 MAR 1040	271	.00	.00	.00	0.
18 MAR 2215	122	.00	.00	.00	1.	*	19 MAR 1045	272	.00	.00	.00	0.
18 MAR 2220	123	.00	.00	.00	1.	*	19 MAR 1050	273	.00	.00	.00	0.
18 MAR 2225	124	.00	.00	.00	1.	*	19 MAR 1055	274	.00	.00	.00	0.
18 MAR 2230	125	.00	.00	.00	1.	*	19 MAR 1100	275	.00	.00	.00	0.
18 MAR 2235	126	.00	.00	.00	0.	*	19 MAR 1105	276	.00	.00	.00	0.
18 MAR 2240	127	.00	.00	.00	0.	*	19 MAR 1110	277	.00	.00	.00	0.
18 MAR 2245	128	.00	.00	.00	0.	*	19 MAR 1115	278	.00	.00	.00	0.
18 MAR 2250	129	.00	.00	.00	0.	*	19 MAR 1120	279	.00	.00	.00	0.
18 MAR 2255	130	.00	.00	.00	0.	*	19 MAR 1125	280	.00	.00	.00	0.
18 MAR 2300	131	.00	.00	.00	0.	*	19 MAR 1130	281	.00	.00	.00	0.
18 MAR 2305	132	.00	.00	.00	0.	*	19 MAR 1135	282	.00	.00	.00	0.
18 MAR 2310	133	.00	.00	.00	0.	*	19 MAR 1140	283	.00	.00	.00	0.
18 MAR 2315	134	.00	.00	.00	0.	*	19 MAR 1145	284	.00	.00	.00	0.
18 MAR 2320	135	.00	.00	.00	0.	*	19 MAR 1150	285	.00	.00	.00	0.
18 MAR 2325	136	.00	.00	.00	0.	*	19 MAR 1155	286	.00	.00	.00	0.
18 MAR 2330	137	.00	.00	.00	0.	*	19 MAR 1200	287	.00	.00	.00	0.
18 MAR 2335	138	.00	.00	.00	0.	*	19 MAR 1205	288	.00	.00	.00	0.
18 MAR 2340	139	.00	.00	.00	0.	*	19 MAR 1210	289	.00	.00	.00	0.
18 MAR 2345	140	.00	.00	.00	0.	*	19 MAR 1215	290	.00	.00	.00	0.
18 MAR 2350	141	.00	.00	.00	0.	*	19 MAR 1220	291	.00	.00	.00	0.
18 MAR 2355	142	.00	.00	.00	0.	*	19 MAR 1225	292	.00	.00	.00	0.
19 MAR 0000	143	.00	.00	.00	0.	*	19 MAR 1230	293	.00	.00	.00	0.
19 MAR 0005	144	.00	.00	.00	0.	*	19 MAR 1235	294	.00	.00	.00	0.
19 MAR 0010	145	.00	.00	.00	0.	*	19 MAR 1240	295	.00	.00	.00	0.
19 MAR 0015	146	.00	.00	.00	0.	*	19 MAR 1245	296	.00	.00	.00	0.
19 MAR 0020	147	.00	.00	.00	0.	*	19 MAR 1250	297	.00	.00	.00	0.
19 MAR 0025	148	.00	.00	.00	0.	*	19 MAR 1255	298	.00	.00	.00	0.
19 MAR 0030	149	.00	.00	.00	0.	*	19 MAR 1300	299	.00	.00	.00	0.
19 MAR 0035	150	.00	.00	.00	0.	*	19 MAR 1305	300	.00	.00	.00	0.
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TOTAL RAINFALL = 2.91, TOTAL LOSS = 1.58, TOTAL EXCESS = 1.33

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)					
		(CFS)				
150.	5.17		45.	11.	11.	11.
		(INCHES)	1.317	1.323	1.323	1.323
		(AC-FT)	22.	23.	23.	23.

CUMULATIVE AREA = .32 SQ MI

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              *            *
52 KK         *    RIDB    *
              *            *
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                        COMBINE B WITH OVERFLOW FROM RID

55 KO           OUTPUT CONTROL VARIABLES
                     IPRNT          2  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL         0.  HYDROGRAPH PLOT SCALE

54 HC           HYDROGRAPH COMBINATION
                     ICOMP          2  NUMBER OF HYDROGRAPHS TO COMBINE
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HYDROGRAPH AT STATION RIDB
SUM OF 2 HYDROGRAPHS

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DA MON HRMN	ORD	FLOW	DA MON HRMN	ORD	FLOW	DA MON HRMN	ORD	FLOW	DA MON HRMN	ORD	FLOW
18 MAR 1210	1	0.	18 MAR 1825	76	194.	19 MAR 0040	151	0.	19 MAR 0655	226	0.
18 MAR 1215	2	0.	18 MAR 1830	77	181.	19 MAR 0045	152	0.	19 MAR 0700	227	0.
18 MAR 1220	3	0.	18 MAR 1835	78	168.	19 MAR 0050	153	0.	19 MAR 0705	228	0.
18 MAR 1225	4	0.	18 MAR 1840	79	156.	19 MAR 0055	154	0.	19 MAR 0710	229	0.
18 MAR 1230	5	0.	18 MAR 1845	80	144.	19 MAR 0100	155	0.	19 MAR 0715	230	0.
18 MAR 1235	6	0.	18 MAR 1850	81	133.	19 MAR 0105	156	0.	19 MAR 0720	231	0.
18 MAR 1240	7	0.	18 MAR 1855	82	123.	19 MAR 0110	157	0.	19 MAR 0725	232	0.
18 MAR 1245	8	0.	18 MAR 1900	83	113.	19 MAR 0115	158	0.	19 MAR 0730	233	0.
18 MAR 1250	9	0.	18 MAR 1905	84	104.	19 MAR 0120	159	0.	19 MAR 0735	234	0.
18 MAR 1255	10	0.	18 MAR 1910	85	96.	19 MAR 0125	160	0.	19 MAR 0740	235	0.
18 MAR 1300	11	0.	18 MAR 1915	86	89.	19 MAR 0130	161	0.	19 MAR 0745	236	0.
18 MAR 1305	12	0.	18 MAR 1920	87	82.	19 MAR 0135	162	0.	19 MAR 0750	237	0.
18 MAR 1310	13	0.	18 MAR 1925	88	76.	19 MAR 0140	163	0.	19 MAR 0755	238	0.
18 MAR 1315	14	0.	18 MAR 1930	89	70.	19 MAR 0145	164	0.	19 MAR 0800	239	0.
18 MAR 1320	15	0.	18 MAR 1935	90	64.	19 MAR 0150	165	0.	19 MAR 0805	240	0.
18 MAR 1325	16	0.	18 MAR 1940	91	59.	19 MAR 0155	166	0.	19 MAR 0810	241	0.
18 MAR 1330	17	0.	18 MAR 1945	92	54.	19 MAR 0200	167	0.	19 MAR 0815	242	0.
18 MAR 1335	18	0.	18 MAR 1950	93	49.	19 MAR 0205	168	0.	19 MAR 0820	243	0.
18 MAR 1340	19	0.	18 MAR 1955	94	45.	19 MAR 0210	169	0.	19 MAR 0825	244	0.
18 MAR 1345	20	0.	18 MAR 2000	95	41.	19 MAR 0215	170	0.	19 MAR 0830	245	0.
18 MAR 1350	21	0.	18 MAR 2005	96	37.	19 MAR 0220	171	0.	19 MAR 0835	246	0.
18 MAR 1355	22	0.	18 MAR 2010	97	34.	19 MAR 0225	172	0.	19 MAR 0840	247	0.
18 MAR 1400	23	0.	18 MAR 2015	98	31.	19 MAR 0230	173	0.	19 MAR 0845	248	0.
18 MAR 1405	24	0.	18 MAR 2020	99	28.	19 MAR 0235	174	0.	19 MAR 0850	249	0.
18 MAR 1410	25	0.	18 MAR 2025	100	25.	19 MAR 0240	175	0.	19 MAR 0855	250	0.
18 MAR 1415	26	0.	18 MAR 2030	101	23.	19 MAR 0245	176	0.	19 MAR 0900	251	0.
18 MAR 1420	27	0.	18 MAR 2035	102	21.	19 MAR 0250	177	0.	19 MAR 0905	252	0.
18 MAR 1425	28	0.	18 MAR 2040	103	20.	19 MAR 0255	178	0.	19 MAR 0910	253	0.
18 MAR 1430	29	0.	18 MAR 2045	104	18.	19 MAR 0300	179	0.	19 MAR 0915	254	0.

18 MAR 1435	30	0.	*	18 MAR 2050	105	16.	*	19 MAR 0305	180	0.	*	19 MAR 0920	255	0.
18 MAR 1440	31	0.	*	18 MAR 2055	106	15.	*	19 MAR 0310	181	0.	*	19 MAR 0925	256	0.
18 MAR 1445	32	0.	*	18 MAR 2100	107	13.	*	19 MAR 0315	182	0.	*	19 MAR 0930	257	0.
18 MAR 1450	33	0.	*	18 MAR 2105	108	12.	*	19 MAR 0320	183	0.	*	19 MAR 0935	258	0.
18 MAR 1455	34	0.	*	18 MAR 2110	109	10.	*	19 MAR 0325	184	0.	*	19 MAR 0940	259	0.
18 MAR 1500	35	0.	*	18 MAR 2115	110	9.	*	19 MAR 0330	185	0.	*	19 MAR 0945	260	0.
18 MAR 1505	36	0.	*	18 MAR 2120	111	8.	*	19 MAR 0335	186	0.	*	19 MAR 0950	261	0.
18 MAR 1510	37	0.	*	18 MAR 2125	112	6.	*	19 MAR 0340	187	0.	*	19 MAR 0955	262	0.
18 MAR 1515	38	0.	*	18 MAR 2130	113	5.	*	19 MAR 0345	188	0.	*	19 MAR 1000	263	0.
18 MAR 1520	39	0.	*	18 MAR 2135	114	4.	*	19 MAR 0350	189	0.	*	19 MAR 1005	264	0.
18 MAR 1525	40	0.	*	18 MAR 2140	115	4.	*	19 MAR 0355	190	0.	*	19 MAR 1010	265	0.
18 MAR 1530	41	0.	*	18 MAR 2145	116	4.	*	19 MAR 0400	191	0.	*	19 MAR 1015	266	0.
18 MAR 1535	42	0.	*	18 MAR 2150	117	3.	*	19 MAR 0405	192	0.	*	19 MAR 1020	267	0.
18 MAR 1540	43	0.	*	18 MAR 2155	118	3.	*	19 MAR 0410	193	0.	*	19 MAR 1025	268	0.
18 MAR 1545	44	0.	*	18 MAR 2200	119	3.	*	19 MAR 0415	194	0.	*	19 MAR 1030	269	0.
18 MAR 1550	45	1.	*	18 MAR 2205	120	3.	*	19 MAR 0420	195	0.	*	19 MAR 1035	270	0.
18 MAR 1555	46	2.	*	18 MAR 2210	121	2.	*	19 MAR 0425	196	0.	*	19 MAR 1040	271	0.
18 MAR 1600	47	3.	*	18 MAR 2215	122	2.	*	19 MAR 0430	197	0.	*	19 MAR 1045	272	0.
18 MAR 1605	48	5.	*	18 MAR 2220	123	2.	*	19 MAR 0435	198	0.	*	19 MAR 1050	273	0.
18 MAR 1610	49	7.	*	18 MAR 2225	124	1.	*	19 MAR 0440	199	0.	*	19 MAR 1055	274	0.
18 MAR 1615	50	10.	*	18 MAR 2230	125	1.	*	19 MAR 0445	200	0.	*	19 MAR 1100	275	0.
18 MAR 1620	51	13.	*	18 MAR 2235	126	1.	*	19 MAR 0450	201	0.	*	19 MAR 1105	276	0.
18 MAR 1625	52	18.	*	18 MAR 2240	127	1.	*	19 MAR 0455	202	0.	*	19 MAR 1110	277	0.
18 MAR 1630	53	25.	*	18 MAR 2245	128	1.	*	19 MAR 0500	203	0.	*	19 MAR 1115	278	0.
18 MAR 1635	54	35.	*	18 MAR 2250	129	0.	*	19 MAR 0505	204	0.	*	19 MAR 1120	279	0.
18 MAR 1640	55	58.	*	18 MAR 2255	130	0.	*	19 MAR 0510	205	0.	*	19 MAR 1125	280	0.
18 MAR 1645	56	79.	*	18 MAR 2300	131	0.	*	19 MAR 0515	206	0.	*	19 MAR 1130	281	0.
18 MAR 1650	57	99.	*	18 MAR 2305	132	0.	*	19 MAR 0520	207	0.	*	19 MAR 1135	282	0.
18 MAR 1655	58	217.	*	18 MAR 2310	133	0.	*	19 MAR 0525	208	0.	*	19 MAR 1140	283	0.
18 MAR 1700	59	276.	*	18 MAR 2315	134	0.	*	19 MAR 0530	209	0.	*	19 MAR 1145	284	0.
18 MAR 1705	60	306.	*	18 MAR 2320	135	0.	*	19 MAR 0535	210	0.	*	19 MAR 1150	285	0.
18 MAR 1710	61	321.	*	18 MAR 2325	136	0.	*	19 MAR 0540	211	0.	*	19 MAR 1155	286	0.
18 MAR 1715	62	330.	*	18 MAR 2330	137	0.	*	19 MAR 0545	212	0.	*	19 MAR 1200	287	0.
18 MAR 1720	63	336.	*	18 MAR 2335	138	0.	*	19 MAR 0550	213	0.	*	19 MAR 1205	288	0.
18 MAR 1725	64	336.	*	18 MAR 2340	139	0.	*	19 MAR 0555	214	0.	*	19 MAR 1210	289	0.
18 MAR 1730	65	331.	*	18 MAR 2345	140	0.	*	19 MAR 0600	215	0.	*	19 MAR 1215	290	0.
18 MAR 1735	66	321.	*	18 MAR 2350	141	0.	*	19 MAR 0605	216	0.	*	19 MAR 1220	291	0.
18 MAR 1740	67	309.	*	18 MAR 2355	142	0.	*	19 MAR 0610	217	0.	*	19 MAR 1225	292	0.
18 MAR 1745	68	297.	*	19 MAR 0000	143	0.	*	19 MAR 0615	218	0.	*	19 MAR 1230	293	0.
18 MAR 1750	69	284.	*	19 MAR 0005	144	0.	*	19 MAR 0620	219	0.	*	19 MAR 1235	294	0.
18 MAR 1755	70	272.	*	19 MAR 0010	145	0.	*	19 MAR 0625	220	0.	*	19 MAR 1240	295	0.
18 MAR 1800	71	259.	*	19 MAR 0015	146	0.	*	19 MAR 0630	221	0.	*	19 MAR 1245	296	0.
18 MAR 1805	72	247.	*	19 MAR 0020	147	0.	*	19 MAR 0635	222	0.	*	19 MAR 1250	297	0.
18 MAR 1810	73	234.	*	19 MAR 0025	148	0.	*	19 MAR 0640	223	0.	*	19 MAR 1255	298	0.
18 MAR 1815	74	221.	*	19 MAR 0030	149	0.	*	19 MAR 0645	224	0.	*	19 MAR 1300	299	0.
18 MAR 1820	75	207.	*	19 MAR 0035	150	0.	*	19 MAR 0650	225	0.	*	19 MAR 1305	300	0.
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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)					
		(CFS)				
336.	5.25		109.	27.	26.	26.
		(INCHES)	1.771	1.780	1.780	1.780
		(AC-FT)	54.	54.	54.	54.

CUMULATIVE AREA = .57 SQ MI

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          *            *
 56 KK    *     AB     *
          *            *
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                    COMBINE SUB-BASIN B WITH ROUTED SUB-BASIN A

 59 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

 58 HC          HYDROGRAPH COMBINATION
                      ICOMP          2  NUMBER OF HYDROGRAPHS TO COMBINE
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HYDROGRAPH AT STATION AB
SUM OF 2 HYDROGRAPHS

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DA MON HRMN	ORD	FLOW	DA MON HRMN	ORD	FLOW	DA MON HRMN	ORD	FLOW	DA MON HRMN	ORD	FLOW
18 MAR 1210	1	0.	18 MAR 1825	76	654.	19 MAR 0040	151	47.	19 MAR 0655	226	3.
18 MAR 1215	2	0.	18 MAR 1830	77	689.	19 MAR 0045	152	46.	19 MAR 0700	227	2.
18 MAR 1220	3	0.	18 MAR 1835	78	708.	19 MAR 0050	153	44.	19 MAR 0705	228	2.
18 MAR 1225	4	0.	18 MAR 1840	79	713.	19 MAR 0055	154	43.	19 MAR 0710	229	2.
18 MAR 1230	5	0.	18 MAR 1845	80	708.	19 MAR 0100	155	42.	19 MAR 0715	230	2.
18 MAR 1235	6	0.	18 MAR 1850	81	695.	19 MAR 0105	156	41.	19 MAR 0720	231	2.
18 MAR 1240	7	0.	18 MAR 1855	82	676.	19 MAR 0110	157	39.	19 MAR 0725	232	2.
18 MAR 1245	8	0.	18 MAR 1900	83	654.	19 MAR 0115	158	38.	19 MAR 0730	233	2.
18 MAR 1250	9	0.	18 MAR 1905	84	630.	19 MAR 0120	159	37.	19 MAR 0735	234	2.
18 MAR 1255	10	0.	18 MAR 1910	85	604.	19 MAR 0125	160	36.	19 MAR 0740	235	2.
18 MAR 1300	11	1.	18 MAR 1915	86	577.	19 MAR 0130	161	35.	19 MAR 0745	236	1.
18 MAR 1305	12	1.	18 MAR 1920	87	551.	19 MAR 0135	162	35.	19 MAR 0750	237	1.
18 MAR 1310	13	1.	18 MAR 1925	88	524.	19 MAR 0140	163	34.	19 MAR 0755	238	1.
18 MAR 1315	14	1.	18 MAR 1930	89	498.	19 MAR 0145	164	33.	19 MAR 0800	239	1.
18 MAR 1320	15	1.	18 MAR 1935	90	472.	19 MAR 0150	165	32.	19 MAR 0805	240	1.
18 MAR 1325	16	2.	18 MAR 1940	91	447.	19 MAR 0155	166	31.	19 MAR 0810	241	1.
18 MAR 1330	17	2.	18 MAR 1945	92	422.	19 MAR 0200	167	31.	19 MAR 0815	242	1.
18 MAR 1335	18	2.	18 MAR 1950	93	398.	19 MAR 0205	168	30.	19 MAR 0820	243	1.
18 MAR 1340	19	2.	18 MAR 1955	94	375.	19 MAR 0210	169	29.	19 MAR 0825	244	1.
18 MAR 1345	20	2.	18 MAR 2000	95	353.	19 MAR 0215	170	28.	19 MAR 0830	245	1.
18 MAR 1350	21	2.	18 MAR 2005	96	332.	19 MAR 0220	171	27.	19 MAR 0835	246	1.
18 MAR 1355	22	2.	18 MAR 2010	97	312.	19 MAR 0225	172	26.	19 MAR 0840	247	1.
18 MAR 1400	23	2.	18 MAR 2015	98	294.	19 MAR 0230	173	26.	19 MAR 0845	248	1.
18 MAR 1405	24	3.	18 MAR 2020	99	277.	19 MAR 0235	174	25.	19 MAR 0850	249	1.
18 MAR 1410	25	3.	18 MAR 2025	100	261.	19 MAR 0240	175	24.	19 MAR 0855	250	0.

18 MAR 1415	26	3.	*	18 MAR 2030	101	246.	*	19 MAR 0245	176	23.	*	19 MAR 0900	251	0.
18 MAR 1420	27	3.	*	18 MAR 2035	102	233.	*	19 MAR 0250	177	22.	*	19 MAR 0905	252	0.
18 MAR 1425	28	3.	*	18 MAR 2040	103	221.	*	19 MAR 0255	178	21.	*	19 MAR 0910	253	0.
18 MAR 1430	29	3.	*	18 MAR 2045	104	209.	*	19 MAR 0300	179	21.	*	19 MAR 0915	254	0.
18 MAR 1435	30	3.	*	18 MAR 2050	105	199.	*	19 MAR 0305	180	20.	*	19 MAR 0920	255	0.
18 MAR 1440	31	3.	*	18 MAR 2055	106	189.	*	19 MAR 0310	181	19.	*	19 MAR 0925	256	0.
18 MAR 1445	32	4.	*	18 MAR 2100	107	179.	*	19 MAR 0315	182	18.	*	19 MAR 0930	257	0.
18 MAR 1450	33	4.	*	18 MAR 2105	108	170.	*	19 MAR 0320	183	17.	*	19 MAR 0935	258	0.
18 MAR 1455	34	4.	*	18 MAR 2110	109	162.	*	19 MAR 0325	184	16.	*	19 MAR 0940	259	0.
18 MAR 1500	35	4.	*	18 MAR 2115	110	154.	*	19 MAR 0330	185	16.	*	19 MAR 0945	260	0.
18 MAR 1505	36	4.	*	18 MAR 2120	111	147.	*	19 MAR 0335	186	15.	*	19 MAR 0950	261	0.
18 MAR 1510	37	4.	*	18 MAR 2125	112	140.	*	19 MAR 0340	187	15.	*	19 MAR 0955	262	0.
18 MAR 1515	38	4.	*	18 MAR 2130	113	133.	*	19 MAR 0345	188	14.	*	19 MAR 1000	263	0.
18 MAR 1520	39	4.	*	18 MAR 2135	114	128.	*	19 MAR 0350	189	14.	*	19 MAR 1005	264	0.
18 MAR 1525	40	4.	*	18 MAR 2140	115	122.	*	19 MAR 0355	190	13.	*	19 MAR 1010	265	0.
18 MAR 1530	41	5.	*	18 MAR 2145	116	118.	*	19 MAR 0400	191	13.	*	19 MAR 1015	266	0.
18 MAR 1535	42	5.	*	18 MAR 2150	117	114.	*	19 MAR 0405	192	12.	*	19 MAR 1020	267	0.
18 MAR 1540	43	5.	*	18 MAR 2155	118	111.	*	19 MAR 0410	193	12.	*	19 MAR 1025	268	0.
18 MAR 1545	44	7.	*	18 MAR 2200	119	108.	*	19 MAR 0415	194	11.	*	19 MAR 1030	269	0.
18 MAR 1550	45	9.	*	18 MAR 2205	120	105.	*	19 MAR 0420	195	11.	*	19 MAR 1035	270	0.
18 MAR 1555	46	12.	*	18 MAR 2210	121	103.	*	19 MAR 0425	196	10.	*	19 MAR 1040	271	0.
18 MAR 1600	47	18.	*	18 MAR 2215	122	100.	*	19 MAR 0430	197	10.	*	19 MAR 1045	272	0.
18 MAR 1605	48	30.	*	18 MAR 2220	123	98.	*	19 MAR 0435	198	9.	*	19 MAR 1050	273	0.
18 MAR 1610	49	47.	*	18 MAR 2225	124	95.	*	19 MAR 0440	199	9.	*	19 MAR 1055	274	0.
18 MAR 1615	50	72.	*	18 MAR 2230	125	93.	*	19 MAR 0445	200	8.	*	19 MAR 1100	275	0.
18 MAR 1620	51	104.	*	18 MAR 2235	126	90.	*	19 MAR 0450	201	8.	*	19 MAR 1105	276	0.
18 MAR 1625	52	141.	*	18 MAR 2240	127	88.	*	19 MAR 0455	202	8.	*	19 MAR 1110	277	0.
18 MAR 1630	53	179.	*	18 MAR 2245	128	86.	*	19 MAR 0500	203	7.	*	19 MAR 1115	278	0.
18 MAR 1635	54	217.	*	18 MAR 2250	129	84.	*	19 MAR 0505	204	7.	*	19 MAR 1120	279	0.
18 MAR 1640	55	260.	*	18 MAR 2255	130	82.	*	19 MAR 0510	205	7.	*	19 MAR 1125	280	0.
18 MAR 1645	56	294.	*	18 MAR 2300	131	80.	*	19 MAR 0515	206	6.	*	19 MAR 1130	281	0.
18 MAR 1650	57	320.	*	18 MAR 2305	132	78.	*	19 MAR 0520	207	6.	*	19 MAR 1135	282	0.
18 MAR 1655	58	437.	*	18 MAR 2310	133	76.	*	19 MAR 0525	208	6.	*	19 MAR 1140	283	0.
18 MAR 1700	59	490.	*	18 MAR 2315	134	74.	*	19 MAR 0530	209	5.	*	19 MAR 1145	284	0.
18 MAR 1705	60	510.	*	18 MAR 2320	135	72.	*	19 MAR 0535	210	5.	*	19 MAR 1150	285	0.
18 MAR 1710	61	514.	*	18 MAR 2325	136	70.	*	19 MAR 0540	211	5.	*	19 MAR 1155	286	0.
18 MAR 1715	62	510.	*	18 MAR 2330	137	69.	*	19 MAR 0545	212	5.	*	19 MAR 1200	287	0.
18 MAR 1720	63	502.	*	18 MAR 2335	138	67.	*	19 MAR 0550	213	5.	*	19 MAR 1205	288	0.
18 MAR 1725	64	488.	*	18 MAR 2340	139	65.	*	19 MAR 0555	214	4.	*	19 MAR 1210	289	0.
18 MAR 1730	65	470.	*	18 MAR 2345	140	64.	*	19 MAR 0600	215	4.	*	19 MAR 1215	290	0.
18 MAR 1735	66	449.	*	18 MAR 2350	141	62.	*	19 MAR 0605	216	4.	*	19 MAR 1220	291	0.
18 MAR 1740	67	431.	*	18 MAR 2355	142	61.	*	19 MAR 0610	217	4.	*	19 MAR 1225	292	0.
18 MAR 1745	68	417.	*	19 MAR 0000	143	59.	*	19 MAR 0615	218	4.	*	19 MAR 1230	293	0.
18 MAR 1750	69	408.	*	19 MAR 0005	144	58.	*	19 MAR 0620	219	4.	*	19 MAR 1235	294	0.
18 MAR 1755	70	402.	*	19 MAR 0010	145	56.	*	19 MAR 0625	220	3.	*	19 MAR 1240	295	0.
18 MAR 1800	71	404.	*	19 MAR 0015	146	54.	*	19 MAR 0630	221	3.	*	19 MAR 1245	296	0.
18 MAR 1805	72	426.	*	19 MAR 0020	147	53.	*	19 MAR 0635	222	3.	*	19 MAR 1250	297	0.
18 MAR 1810	73	472.	*	19 MAR 0025	148	51.	*	19 MAR 0640	223	3.	*	19 MAR 1255	298	0.
18 MAR 1815	74	536.	*	19 MAR 0030	149	50.	*	19 MAR 0645	224	3.	*	19 MAR 1300	299	0.
18 MAR 1820	75	601.	*	19 MAR 0035	150	49.	*	19 MAR 0650	225	3.	*	19 MAR 1305	300	0.
			*				*				*			

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PEAK FLOW (CFS)	TIME (HR)	MAXIMUM AVERAGE FLOW (CFS) 6-HR	24-HR	72-HR	24.92-HR
713.	6.50	364.	104.	100.	100.

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                (INCHES)      .045        .052        .052        .052
                 (AC-FT)      180.        206.        206.        206.

                 CUMULATIVE AREA =   74.84 SQ MI



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        *            *
 60 KK  *     RTEAB  *     2C
        *            *
        **************
                     ROUTE COMBINED HYDROGRAPH TO SUB BASIN C

 66 KO        OUTPUT CONTROL VARIABLES
                    IPRNT          2  PRINT CONTROL
                    IPLOT          0  PLOT CONTROL
                    QSCAL         0.  HYDROGRAPH PLOT SCALE

           HYDROGRAPH ROUTING DATA

 62 RS        STORAGE ROUTING
                    NSTPS          2  NUMBER OF SUBREACHES
                     ITYP       FLOW  TYPE OF INITIAL CONDITION
                   RSVRIC        .00  INITIAL CONDITION
                        X        .00 WORKING R AND D COEFFICIENT

 63 RC        NORMAL DEPTH CHANNEL
                      ANL       .025  LEFT OVERBANK N-VALUE
                     ANCH       .015  MAIN CHANNEL N-VALUE
                      ANR       .025  RIGHT OVERBANK N-VALUE
                    RLNTH      2650.  REACH LENGTH
                      SEL      .0006  ENERGY SLOPE
                    ELMAX      104.0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                   CROSS-SECTION DATA
                      --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
 65 RY       ELEVATION   104.00    101.00    100.00    102.00    101.00    101.54    101.00    104.00
 64 RX       DISTANCE    100.00    150.00    152.00    156.00    158.00    185.00    212.00    216.00

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                                   COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

          STORAGE       .00       .01       .02       .05       .09       .14       .44      1.07      1.96      2.93
          OUTFLOW       .00       .04       .23       .67      1.44      1.93      4.97     14.55     35.34     65.96
        ELEVATION    100.00    100.21    100.42    100.63    100.84    101.05    101.26    101.47    101.68    101.89

          STORAGE      3.95      5.02      6.15      7.32      8.53      9.80     11.12     12.48     13.89     15.36
          OUTFLOW    105.12    152.64    207.84    270.56    340.73    418.28    503.21    595.50    695.18    802.28
        ELEVATION    102.11    102.32    102.53    102.74    102.95    103.16    103.37    103.58    103.79    104.00

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HYDROGRAPH AT STATION RTEAB

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
18	MAR	1210	1	0.	.0	100.0	18	MAR	2030	101	287.	3.8	102.8	19	MAR	0450	201	12.	.5	101.4
18	MAR	1215	2	0.	.0	100.0	18	MAR	2035	102	271.	3.7	102.7	19	MAR	0455	202	12.	.4	101.4
18	MAR	1220	3	0.	.0	100.0	18	MAR	2040	103	257.	3.5	102.7	19	MAR	0500	203	11.	.4	101.4
18	MAR	1225	4	0.	.0	100.0	18	MAR	2045	104	244.	3.4	102.6	19	MAR	0505	204	11.	.4	101.4
18	MAR	1230	5	0.	.0	100.0	18	MAR	2050	105	231.	3.3	102.6	19	MAR	0510	205	10.	.4	101.4
18	MAR	1235	6	0.	.0	100.0	18	MAR	2055	106	219.	3.2	102.6	19	MAR	0515	206	10.	.4	101.4
18	MAR	1240	7	0.	.0	100.0	18	MAR	2100	107	208.	3.1	102.5	19	MAR	0520	207	10.	.4	101.4
18	MAR	1245	8	0.	.0	100.0	18	MAR	2105	108	198.	3.0	102.5	19	MAR	0525	208	9.	.4	101.4
18	MAR	1250	9	0.	.0	100.0	18	MAR	2110	109	189.	2.9	102.5	19	MAR	0530	209	9.	.3	101.3
18	MAR	1255	10	0.	.0	100.0	18	MAR	2115	110	179.	2.8	102.4	19	MAR	0535	210	8.	.3	101.3
18	MAR	1300	11	0.	.0	100.1	18	MAR	2120	111	171.	2.7	102.4	19	MAR	0540	211	8.	.3	101.3
18	MAR	1305	12	0.	.0	100.2	18	MAR	2125	112	163.	2.6	102.4	19	MAR	0545	212	8.	.3	101.3
18	MAR	1310	13	0.	.0	100.2	18	MAR	2130	113	155.	2.5	102.3	19	MAR	0550	213	7.	.3	101.3
18	MAR	1315	14	0.	.0	100.3	18	MAR	2135	114	148.	2.5	102.3	19	MAR	0555	214	7.	.3	101.3
18	MAR	1320	15	0.	.0	100.4	18	MAR	2140	115	142.	2.4	102.3	19	MAR	0600	215	7.	.3	101.3
18	MAR	1325	16	0.	.0	100.4	18	MAR	2145	116	136.	2.3	102.2	19	MAR	0605	216	6.	.3	101.3
18	MAR	1330	17	0.	.0	100.5	18	MAR	2150	117	130.	2.3	102.2	19	MAR	0610	217	6.	.3	101.3
18	MAR	1335	18	1.	.0	100.6	18	MAR	2155	118	125.	2.2	102.2	19	MAR	0615	218	6.	.3	101.3
18	MAR	1340	19	1.	.0	100.6	18	MAR	2200	119	121.	2.2	102.2	19	MAR	0620	219	6.	.2	101.3
18	MAR	1345	20	1.	.0	100.7	18	MAR	2205	120	117.	2.1	102.2	19	MAR	0625	220	5.	.2	101.3
18	MAR	1350	21	1.	.0	100.7	18	MAR	2210	121	113.	2.1	102.1	19	MAR	0630	221	5.	.2	101.3
18	MAR	1355	22	1.	.0	100.8	18	MAR	2215	122	110.	2.0	102.1	19	MAR	0635	222	5.	.2	101.3
18	MAR	1400	23	1.	.0	100.8	18	MAR	2220	123	107.	2.0	102.1	19	MAR	0640	223	5.	.2	101.3
18	MAR	1405	24	1.	.0	100.8	18	MAR	2225	124	104.	2.0	102.1	19	MAR	0645	224	5.	.2	101.2
18	MAR	1410	25	1.	.0	100.9	18	MAR	2230	125	102.	1.9	102.1	19	MAR	0650	225	5.	.2	101.2
18	MAR	1415	26	2.	.0	100.9	18	MAR	2235	126	100.	1.9	102.1	19	MAR	0655	226	4.	.2	101.2
18	MAR	1420	27	2.	.1	100.9	18	MAR	2240	127	97.	1.9	102.1	19	MAR	0700	227	4.	.2	101.2
18	MAR	1425	28	2.	.1	100.9	18	MAR	2245	128	95.	1.8	102.0	19	MAR	0705	228	4.	.2	101.2
18	MAR	1430	29	2.	.1	101.0	18	MAR	2250	129	92.	1.8	102.0	19	MAR	0710	229	4.	.2	101.2
18	MAR	1435	30	2.	.1	101.0	18	MAR	2255	130	90.	1.8	102.0	19	MAR	0715	230	4.	.2	101.2
18	MAR	1440	31	2.	.1	101.0	18	MAR	2300	131	88.	1.8	102.0	19	MAR	0720	231	4.	.2	101.2
18	MAR	1445	32	2.	.1	101.1	18	MAR	2305	132	86.	1.7	102.0	19	MAR	0725	232	4.	.2	101.2
18	MAR	1450	33	2.	.1	101.1	18	MAR	2310	133	84.	1.7	102.0	19	MAR	0730	233	4.	.2	101.2
18	MAR	1455	34	2.	.1	101.1	18	MAR	2315	134	82.	1.7	102.0	19	MAR	0735	234	3.	.1	101.2
18	MAR	1500	35	2.	.1	101.1	18	MAR	2320	135	80.	1.6	102.0	19	MAR	0740	235	3.	.1	101.1
18	MAR	1505	36	2.	.1	101.1	18	MAR	2325	136	78.	1.6	102.0	19	MAR	0745	236	3.	.1	101.1
18	MAR	1510	37	2.	.1	101.1	18	MAR	2330	137	76.	1.6	101.9	19	MAR	0750	237	3.	.1	101.1
18	MAR	1515	38	3.	.1	101.1	18	MAR	2335	138	74.	1.6	101.9	19	MAR	0755	238	3.	.1	101.1
18	MAR	1520	39	3.	.1	101.1	18	MAR	2340	139	72.	1.5	101.9	19	MAR	0800	239	3.	.1	101.1
18	MAR	1525	40	3.	.1	101.1	18	MAR	2345	140	70.	1.5	101.9	19	MAR	0805	240	3.	.1	101.1
18	MAR	1530	41	3.	.1	101.1	18	MAR	2350	141	68.	1.5	101.9	19	MAR	0810	241	3.	.1	101.1
18	MAR	1535	42	3.	.1	101.1	18	MAR	2355	142	67.	1.5	101.9	19	MAR	0815	242	2.	.1	101.1
18	MAR	1540	43	3.	.1	101.1	19	MAR	0000	143	65.	1.5	101.9	19	MAR	0820	243	2.	.1	101.1
18	MAR	1545	44	3.	.1	101.1	19	MAR	0005	144	64.	1.4	101.9	19	MAR	0825	244	2.	.1	101.1
18	MAR	1550	45	3.	.1	101.2	19	MAR	0010	145	63.	1.4	101.9	19	MAR	0830	245	2.	.1	101.1
18	MAR	1555	46	4.	.2	101.2	19	MAR	0015	146	61.	1.4	101.9	19	MAR	0835	246	2.	.1	101.0
18	MAR	1600	47	4.	.2	101.2	19	MAR	0020	147	60.	1.4	101.9	19	MAR	0840	247	2.	.1	101.0
18	MAR	1605	48	5.	.2	101.2	19	MAR	0025	148	58.	1.3	101.8	19	MAR	0845	248	2.	.1	101.0
18	MAR	1610	49	6.	.3	101.3	19	MAR	0030	149	57.	1.3	101.8	19	MAR	0850	249	2.	.1	100.9
18	MAR	1615	50	9.	.4	101.4	19	MAR	0035	150	55.	1.3	101.8	19	MAR	0855	250	2.	.0	100.9
18	MAR	1620	51	15.	.5	101.5	19	MAR	0040	151	54.	1.3	101.8	19	MAR	0900	251	1.	.0	100.8

18 MAR	1625	52	28.	.8	101.6	*	19 MAR	0045	152	52.	1.2	101.8	*	19 MAR	0905	252	1.	.0	100.8
18 MAR	1630	53	49.	1.2	101.8	*	19 MAR	0050	153	51.	1.2	101.8	*	19 MAR	0910	253	1.	.0	100.7
18 MAR	1635	54	81.	1.7	102.0	*	19 MAR	0055	154	49.	1.2	101.8	*	19 MAR	0915	254	1.	.0	100.7
18 MAR	1640	55	121.	2.2	102.2	*	19 MAR	0100	155	48.	1.2	101.8	*	19 MAR	0920	255	1.	.0	100.7
18 MAR	1645	56	167.	2.7	102.4	*	19 MAR	0105	156	47.	1.2	101.8	*	19 MAR	0925	256	1.	.0	100.7
18 MAR	1650	57	213.	3.1	102.5	*	19 MAR	0110	157	45.	1.1	101.8	*	19 MAR	0930	257	1.	.0	100.6
18 MAR	1655	58	263.	3.6	102.7	*	19 MAR	0115	158	44.	1.1	101.7	*	19 MAR	0935	258	1.	.0	100.6
18 MAR	1700	59	324.	4.1	102.9	*	19 MAR	0120	159	43.	1.1	101.7	*	19 MAR	0940	259	1.	.0	100.6
18 MAR	1705	60	391.	4.7	103.1	*	19 MAR	0125	160	41.	1.1	101.7	*	19 MAR	0945	260	1.	.0	100.6
18 MAR	1710	61	444.	5.1	103.2	*	19 MAR	0130	161	40.	1.1	101.7	*	19 MAR	0950	261	1.	.0	100.6
18 MAR	1715	62	478.	5.4	103.3	*	19 MAR	0135	162	39.	1.0	101.7	*	19 MAR	0955	262	1.	.0	100.6
18 MAR	1720	63	495.	5.5	103.3	*	19 MAR	0140	163	38.	1.0	101.7	*	19 MAR	1000	263	1.	.0	100.6
18 MAR	1725	64	499.	5.5	103.4	*	19 MAR	0145	164	37.	1.0	101.7	*	19 MAR	1005	264	0.	.0	100.6
18 MAR	1730	65	495.	5.5	103.3	*	19 MAR	0150	165	36.	1.0	101.7	*	19 MAR	1010	265	0.	.0	100.5
18 MAR	1735	66	485.	5.4	103.3	*	19 MAR	0155	166	35.	1.0	101.7	*	19 MAR	1015	266	0.	.0	100.5
18 MAR	1740	67	470.	5.3	103.3	*	19 MAR	0200	167	35.	1.0	101.7	*	19 MAR	1020	267	0.	.0	100.5
18 MAR	1745	68	453.	5.2	103.2	*	19 MAR	0205	168	34.	1.0	101.7	*	19 MAR	1025	268	0.	.0	100.5
18 MAR	1750	69	438.	5.1	103.2	*	19 MAR	0210	169	34.	.9	101.7	*	19 MAR	1030	269	0.	.0	100.5
18 MAR	1755	70	424.	4.9	103.2	*	19 MAR	0215	170	33.	.9	101.7	*	19 MAR	1035	270	0.	.0	100.5
18 MAR	1800	71	415.	4.9	103.1	*	19 MAR	0220	171	32.	.9	101.7	*	19 MAR	1040	271	0.	.0	100.5
18 MAR	1805	72	411.	4.8	103.1	*	19 MAR	0225	172	31.	.9	101.6	*	19 MAR	1045	272	0.	.0	100.5
18 MAR	1810	73	418.	4.9	103.2	*	19 MAR	0230	173	31.	.9	101.6	*	19 MAR	1050	273	0.	.0	100.5
18 MAR	1815	74	441.	5.1	103.2	*	19 MAR	0235	174	30.	.9	101.6	*	19 MAR	1055	274	0.	.0	100.5
18 MAR	1820	75	481.	5.4	103.3	*	19 MAR	0240	175	29.	.8	101.6	*	19 MAR	1100	275	0.	.0	100.5
18 MAR	1825	76	533.	5.8	103.4	*	19 MAR	0245	176	28.	.8	101.6	*	19 MAR	1105	276	0.	.0	100.5
18 MAR	1830	77	587.	6.2	103.6	*	19 MAR	0250	177	27.	.8	101.6	*	19 MAR	1110	277	0.	.0	100.5
18 MAR	1835	78	636.	6.5	103.7	*	19 MAR	0255	178	27.	.8	101.6	*	19 MAR	1115	278	0.	.0	100.5
18 MAR	1840	79	671.	6.8	103.7	*	19 MAR	0300	179	26.	.8	101.6	*	19 MAR	1120	279	0.	.0	100.5
18 MAR	1845	80	692.	6.9	103.8	*	19 MAR	0305	180	25.	.8	101.6	*	19 MAR	1125	280	0.	.0	100.5
18 MAR	1850	81	701.	7.0	103.8	*	19 MAR	0310	181	24.	.7	101.6	*	19 MAR	1130	281	0.	.0	100.5
18 MAR	1855	82	698.	7.0	103.8	*	19 MAR	0315	182	23.	.7	101.6	*	19 MAR	1135	282	0.	.0	100.5
18 MAR	1900	83	688.	6.9	103.8	*	19 MAR	0320	183	22.	.7	101.6	*	19 MAR	1140	283	0.	.0	100.5
18 MAR	1905	84	672.	6.8	103.7	*	19 MAR	0325	184	22.	.7	101.5	*	19 MAR	1145	284	0.	.0	100.5
18 MAR	1910	85	652.	6.6	103.7	*	19 MAR	0330	185	21.	.7	101.5	*	19 MAR	1150	285	0.	.0	100.5
18 MAR	1915	86	629.	6.5	103.6	*	19 MAR	0335	186	20.	.7	101.5	*	19 MAR	1155	286	0.	.0	100.5
18 MAR	1920	87	604.	6.3	103.6	*	19 MAR	0340	187	19.	.6	101.5	*	19 MAR	1200	287	0.	.0	100.5
8 MAR	1925	88	579.	6.1	103.5	*	19 MAR	0345	188	18.	.6	101.5	*	19 MAR	1205	288	0.	.0	100.5
8 MAR	1930	89	554.	5.9	103.5	*	19 MAR	0350	189	18.	.6	101.5	*	19 MAR	1210	289	0.	.0	100.5
8 MAR	1935	90	528.	5.7	103.4	*	19 MAR	0355	190	17.	.6	101.5	*	19 MAR	1215	290	0.	.0	100.5
8 MAR	1940	91	502.	5.6	103.4	*	19 MAR	0400	191	16.	.6	101.5	*	19 MAR	1220	291	0.	.0	100.5
8 MAR	1945	92	478.	5.4	103.3	*	19 MAR	0405	192	16.	.6	101.5	*	19 MAR	1225	292	0.	.0	100.5
8 MAR	1950	93	453.	5.2	103.2	*	19 MAR	0410	193	15.	.5	101.5	*	19 MAR	1230	293	0.	.0	100.5
.8 MAR	1955	94	429.	5.0	103.2	*	19 MAR	0415	194	15.	.5	101.5	*	19 MAR	1235	294	0.	.0	100.5
18 MAR	2000	95	406.	4.8	103.1	*	19 MAR	0420	195	14.	.5	101.5	*	19 MAR	1240	295	0.	.0	100.5
18 MAR	2005	96	384.	4.6	103.1	*	19 MAR	0425	196	14.	.5	101.5	*	19 MAR	1245	296	0.	.0	100.5
18 MAR	2010	97	362.	4.4	103.0	*	19 MAR	0430	197	14.	.5	101.5	*	19 MAR	1250	297	0.	.0	100.5
18 MAR	2015	98	341.	4.3	102.9	*	19 MAR	0435	198	13.	.5	101.4	*	19 MAR	1255	298	0.	.0	100.5
18 MAR	2020	99	323.	4.1	102.9	*	19 MAR	0440	199	13.	.5	101.4	*	19 MAR	1300	299	0.	.0	100.5
18 MAR	2025	100	305.	4.0	102.8	*	19 MAR	0445	200	12.	.5	101.4	*	19 MAR	1305	300	0.	.0	100.5
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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)					
		(CFS)				
701.	6.67		362.	104.	100.	100.
		(INCHES)	.045	.052	.052	.052

	(AC-FT)	179.	206.	206.	206.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
7.	6.67	4.	1.	1.	1.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
103.80	6.67	102.94	101.63	101.57	101.57

CUMULATIVE AREA = 74.84 SQ MI

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              **************
              *            *
 67 KK        *     C      *
              *            *
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SUB-BASIN C
6-HOUR RAINFALL, PATTERN NO. 2.00 WAS USED TO FIND TC & R FOR THIS BASIN
THIS BASIN USED RAINFALL REDUCTION FACTOR OF .975
L = 1.00 Kb = .049 Adj. Slope = 10.0

77 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE

SUBBASIN RUNOFF DATA

72 BA SUBBASIN CHARACTERISTICS

TAREA	.45	SUBBASIN AREA

PRECIPITATION DATA

18 PB

STORM	2.91	BASIN TOTAL PRECIPITATION

18 PI INCREMENTAL PRECIPITATION PATTERN

.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.01	.01	.01	.01	.01	.01	.03
.03	.03	.06	.06	.06	.08	.08	.08	.05	.05
.05	.02	.02	.02	.01	.01	.01	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00								

73 LG GREEN AND AMPT LOSS RATE

STRTL	.50	STARTING LOSS
DTH	.15	MOISTURE DEFICIT
PSIF	7.60	WETTING FRONT SUCTION

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                XKSAT        .08  HYDRAULIC CONDUCTIVITY
                RTIMP        .00  PERCENT IMPERVIOUS AREA

74 UC        CLARK UNITGRAPH
                 TC        .98  TIME OF CONCENTRATION
                  R        .57  STORAGE COEFFICIENT

75 UA        ACCUMULATED-AREA VS. TIME,  11 ORDINATES
                .0      3.0      5.0      8.0     12.0     20.0     43.0     75.0     90.0     96.0
              100.0

                                          ***

                                   UNIT HYDROGRAPH PARAMETERS
                            CLARK   TC=   .98 HR,      R=   .57 HR
                           SNYDER   TP=   .82 HR,     CP=   .86

                                       UNIT HYDROGRAPH
                                  44 END-OF-PERIOD ORDINATES
          6.      16.      23.      33.      46.      70.     127.     220.     292.     309.
        297.     273.     242.     209.     180.     156.     135.     116.     100.      87.
         75.      65.      56.      48.      42.      36.      31.      27.      23.      20.
         17.      15.      13.      11.      10.       8.       7.       6.       5.       5.
          4.       3.       3.       3.
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HYDROGRAPH AT STATION C

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DA MON HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA MON HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
						*						
18 MAR 1210	1	.00	.00	.00	0.	*	19 MAR 0040	151	.00	.00	.00	0.
18 MAR 1215	2	.01	.01	.00	0.	*	19 MAR 0045	152	.00	.00	.00	0.
18 MAR 1220	3	.01	.01	.00	0.	*	19 MAR 0050	153	.00	.00	.00	0.
18 MAR 1225	4	.01	.01	.00	0.	*	19 MAR 0055	154	.00	.00	.00	0.
18 MAR 1230	5	.01	.01	.00	0.	*	19 MAR 0100	155	.00	.00	.00	0.
18 MAR 1235	6	.01	.01	.00	0.	*	19 MAR 0105	156	.00	.00	.00	0.
18 MAR 1240	7	.01	.01	.00	0.	*	19 MAR 0110	157	.00	.00	.00	0.
18 MAR 1245	8	.01	.01	.00	0.	*	19 MAR 0115	158	.00	.00	.00	0.
18 MAR 1250	9	.01	.01	.00	0.	*	19 MAR 0120	159	.00	.00	.00	0.
18 MAR 1255	10	.01	.01	.00	0.	*	19 MAR 0125	160	.00	.00	.00	0.
18 MAR 1300	11	.01	.01	.00	0.	*	19 MAR 0130	161	.00	.00	.00	0.
18 MAR 1305	12	.01	.01	.00	0.	*	19 MAR 0135	162	.00	.00	.00	0.
18 MAR 1310	13	.01	.01	.00	0.	*	19 MAR 0140	163	.00	.00	.00	0.
18 MAR 1315	14	.01	.01	.00	0.	*	19 MAR 0145	164	.00	.00	.00	0.
18 MAR 1320	15	.01	.01	.00	0.	*	19 MAR 0150	165	.00	.00	.00	0.
18 MAR 1325	16	.01	.01	.00	0.	*	19 MAR 0155	166	.00	.00	.00	0.
18 MAR 1330	17	.01	.01	.00	0.	*	19 MAR 0200	167	.00	.00	.00	0.
18 MAR 1335	18	.01	.01	.00	0.	*	19 MAR 0205	168	.00	.00	.00	0.
18 MAR 1340	19	.01	.01	.00	0.	*	19 MAR 0210	169	.00	.00	.00	0.
18 MAR 1345	20	.01	.01	.00	0.	*	19 MAR 0215	170	.00	.00	.00	0.
18 MAR 1350	21	.01	.01	.00	0.	*	19 MAR 0220	171	.00	.00	.00	0.
18 MAR 1355	22	.01	.01	.00	0.	*	19 MAR 0225	172	.00	.00	.00	0.
18 MAR 1400	23	.01	.01	.00	0.	*	19 MAR 0230	173	.00	.00	.00	0.
18 MAR 1405	24	.01	.01	.00	0.	*	19 MAR 0235	174	.00	.00	.00	0.
18 MAR 1410	25	.01	.01	.00	0.	*	19 MAR 0240	175	.00	.00	.00	0.

18 MAR 1415	26	.01	.01	.00	0.	*	19 MAR 0245	176	.00	.00	.00	0.
18 MAR 1420	27	.01	.01	.00	0.	*	19 MAR 0250	177	.00	.00	.00	0.
18 MAR 1425	28	.01	.01	.00	0.	*	19 MAR 0255	178	.00	.00	.00	0.
18 MAR 1430	29	.01	.01	.00	0.	*	19 MAR 0300	179	.00	.00	.00	0.
18 MAR 1435	30	.01	.01	.00	0.	*	19 MAR 0305	180	.00	.00	.00	0.
18 MAR 1440	31	.01	.01	.00	0.	*	19 MAR 0310	181	.00	.00	.00	0.
18 MAR 1445	32	.01	.01	.00	0.	*	19 MAR 0315	182	.00	.00	.00	0.
18 MAR 1450	33	.01	.01	.00	0.	*	19 MAR 0320	183	.00	.00	.00	0.
18 MAR 1455	34	.01	.01	.00	0.	*	19 MAR 0325	184	.00	.00	.00	0.
18 MAR 1500	35	.02	.02	.00	0.	*	19 MAR 0330	185	.00	.00	.00	0.
18 MAR 1505	36	.02	.02	.00	0.	*	19 MAR 0335	186	.00	.00	.00	0.
18 MAR 1510	37	.02	.02	.00	0.	*	19 MAR 0340	187	.00	.00	.00	0.
18 MAR 1515	38	.04	.04	.00	0.	*	19 MAR 0345	188	.00	.00	.00	0.
18 MAR 1520	39	.04	.04	.00	0.	*	19 MAR 0350	189	.00	.00	.00	0.
18 MAR 1525	40	.04	.04	.00	0.	*	19 MAR 0355	190	.00	.00	.00	0.
18 MAR 1530	41	.09	.09	.00	0.	*	19 MAR 0400	191	.00	.00	.00	0.
18 MAR 1535	42	.09	.07	.02	0.	*	19 MAR 0405	192	.00	.00	.00	0.
18 MAR 1540	43	.09	.05	.04	0.	*	19 MAR 0410	193	.00	.00	.00	0.
18 MAR 1545	44	.19	.04	.15	2.	*	19 MAR 0415	194	.00	.00	.00	0.
18 MAR 1550	45	.19	.04	.15	5.	*	19 MAR 0420	195	.00	.00	.00	0.
18 MAR 1555	46	.19	.03	.16	9.	*	19 MAR 0425	196	.00	.00	.00	0.
18 MAR 1600	47	.23	.03	.20	15.	*	19 MAR 0430	197	.00	.00	.00	0.
18 MAR 1605	48	.23	.03	.20	24.	*	19 MAR 0435	198	.00	.00	.00	0.
18 MAR 1610	49	.23	.03	.20	40.	*	19 MAR 0440	199	.00	.00	.00	0.
18 MAR 1615	50	.14	.03	.11	64.	*	19 MAR 0445	200	.00	.00	.00	0.
18 MAR 1620	51	.14	.02	.11	101.	*	19 MAR 0450	201	.00	.00	.00	0.
18 MAR 1625	52	.14	.02	.11	148.	*	19 MAR 0455	202	.00	.00	.00	0.
18 MAR 1630	53	.06	.02	.04	197.	*	19 MAR 0500	203	.00	.00	.00	0.
18 MAR 1635	54	.06	.02	.04	247.	*	19 MAR 0505	204	.00	.00	.00	0.
18 MAR 1640	55	.06	.02	.04	293.	*	19 MAR 0510	205	.00	.00	.00	0.
18 MAR 1645	56	.04	.02	.02	330.	*	19 MAR 0515	206	.00	.00	.00	0.
18 MAR 1650	57	.04	.02	.02	352.	*	19 MAR 0520	207	.00	.00	.00	0.
18 MAR 1655	58	.04	.02	.02	360.	*	19 MAR 0525	208	.00	.00	.00	0.
18 MAR 1700	59	.01	.01	.00	357.	*	19 MAR 0530	209	.00	.00	.00	0.
18 MAR 1705	60	.01	.01	.00	344.	*	19 MAR 0535	210	.00	.00	.00	0.
18 MAR 1710	61	.01	.01	.00	322.	*	19 MAR 0540	211	.00	.00	.00	0.
18 MAR 1715	62	.01	.01	.00	297.	*	19 MAR 0545	212	.00	.00	.00	0.
18 MAR 1720	63	.01	.01	.00	270.	*	19 MAR 0550	213	.00	.00	.00	0.
18 MAR 1725	64	.01	.01	.00	243.	*	19 MAR 0555	214	.00	.00	.00	0.
18 MAR 1730	65	.01	.01	.00	217.	*	19 MAR 0600	215	.00	.00	.00	0.
18 MAR 1735	66	.01	.01	.00	192.	*	19 MAR 0605	216	.00	.00	.00	0.
18 MAR 1740	67	.01	.01	.00	168.	*	19 MAR 0610	217	.00	.00	.00	0.
18 MAR 1745	68	.01	.01	.00	146.	*	19 MAR 0615	218	.00	.00	.00	0.
18 MAR 1750	69	.01	.01	.00	126.	*	19 MAR 0620	219	.00	.00	.00	0.
18 MAR 1755	70	.01	.01	.00	109.	*	19 MAR 0625	220	.00	.00	.00	0.
18 MAR 1800	71	.01	.01	.00	94.	*	19 MAR 0630	221	.00	.00	.00	0.
18 MAR 1805	72	.01	.01	.00	81.	*	19 MAR 0635	222	.00	.00	.00	0.
18 MAR 1810	73	.01	.01	.00	70.	*	19 MAR 0640	223	.00	.00	.00	0.
18 MAR 1815	74	.00	.00	.00	61.	*	19 MAR 0645	224	.00	.00	.00	0.
18 MAR 1820	75	.00	.00	.00	53.	*	19 MAR 0650	225	.00	.00	.00	0.
18 MAR 1825	76	.00	.00	.00	45.	*	19 MAR 0655	226	.00	.00	.00	0.
18 MAR 1830	77	.00	.00	.00	39.	*	19 MAR 0700	227	.00	.00	.00	0.
18 MAR 1835	78	.00	.00	.00	34.	*	19 MAR 0705	228	.00	.00	.00	0.
18 MAR 1840	79	.00	.00	.00	29.	*	19 MAR 0710	229	.00	.00	.00	0.
18 MAR 1845	80	.00	.00	.00	25.	*	19 MAR 0715	230	.00	.00	.00	0.
18 MAR 1850	81	.00	.00	.00	22.	*	19 MAR 0720	231	.00	.00	.00	0.
18 MAR 1855	82	.00	.00	.00	19.	*	19 MAR 0725	232	.00	.00	.00	0.
18 MAR 1900	83	.00	.00	.00	16.	*	19 MAR 0730	233	.00	.00	.00	0.

18 MAR 1905	84	.00	.00	.00	14.	*	19 MAR 0735	234	.00	.00	.00	0.
18 MAR 1910	85	.00	.00	.00	12.	*	19 MAR 0740	235	.00	.00	.00	0.
18 MAR 1915	86	.00	.00	.00	10.	*	19 MAR 0745	236	.00	.00	.00	0.
18 MAR 1920	87	.00	.00	.00	9.	*	19 MAR 0750	237	.00	.00	.00	0.
18 MAR 1925	88	.00	.00	.00	7.	*	19 MAR 0755	238	.00	.00	.00	0.
18 MAR 1930	89	.00	.00	.00	6.	*	19 MAR 0800	239	.00	.00	.00	0.
18 MAR 1935	90	.00	.00	.00	5.	*	19 MAR 0805	240	.00	.00	.00	0.
18 MAR 1940	91	.00	.00	.00	4.	*	19 MAR 0810	241	.00	.00	.00	0.
18 MAR 1945	92	.00	.00	.00	3.	*	19 MAR 0815	242	.00	.00	.00	0.
18 MAR 1950	93	.00	.00	.00	2.	*	19 MAR 0820	243	.00	.00	.00	0.
18 MAR 1955	94	.00	.00	.00	1.	*	19 MAR 0825	244	.00	.00	.00	0.
18 MAR 2000	95	.00	.00	.00	1.	*	19 MAR 0830	245	.00	.00	.00	0.
18 MAR 2005	96	.00	.00	.00	1.	*	19 MAR 0835	246	.00	.00	.00	0.
18 MAR 2010	97	.00	.00	.00	0.	*	19 MAR 0840	247	.00	.00	.00	0.
18 MAR 2015	98	.00	.00	.00	0.	*	19 MAR 0845	248	.00	.00	.00	0.
18 MAR 2020	99	.00	.00	.00	0.	*	19 MAR 0850	249	.00	.00	.00	0.
18 MAR 2025	100	.00	.00	.00	0.	*	19 MAR 0855	250	.00	.00	.00	0.
18 MAR 2030	101	.00	.00	.00	0.	*	19 MAR 0900	251	.00	.00	.00	0.
18 MAR 2035	102	.00	.00	.00	0.	*	19 MAR 0905	252	.00	.00	.00	0.
18 MAR 2040	103	.00	.00	.00	0.	*	19 MAR 0910	253	.00	.00	.00	0.
18 MAR 2045	104	.00	.00	.00	0.	*	19 MAR 0915	254	.00	.00	.00	0.
18 MAR 2050	105	.00	.00	.00	0.	*	19 MAR 0920	255	.00	.00	.00	0.
18 MAR 2055	106	.00	.00	.00	0.	*	19 MAR 0925	256	.00	.00	.00	0.
18 MAR 2100	107	.00	.00	.00	0.	*	19 MAR 0930	257	.00	.00	.00	0.
18 MAR 2105	108	.00	.00	.00	0.	*	19 MAR 0935	258	.00	.00	.00	0.
18 MAR 2110	109	.00	.00	.00	0.	*	19 MAR 0940	259	.00	.00	.00	0.
18 MAR 2115	110	.00	.00	.00	0.	*	19 MAR 0945	260	.00	.00	.00	0.
18 MAR 2120	111	.00	.00	.00	0.	*	19 MAR 0950	261	.00	.00	.00	0.
18 MAR 2125	112	.00	.00	.00	0.	*	19 MAR 0955	262	.00	.00	.00	0.
18 MAR 2130	113	.00	.00	.00	0.	*	19 MAR 1000	263	.00	.00	.00	0.
18 MAR 2135	114	.00	.00	.00	0.	*	19 MAR 1005	264	.00	.00	.00	0.
18 MAR 2140	115	.00	.00	.00	0.	*	19 MAR 1010	265	.00	.00	.00	0.
18 MAR 2145	116	.00	.00	.00	0.	*	19 MAR 1015	266	.00	.00	.00	0.
18 MAR 2150	117	.00	.00	.00	0.	*	19 MAR 1020	267	.00	.00	.00	0.
18 MAR 2155	118	.00	.00	.00	0.	*	19 MAR 1025	268	.00	.00	.00	0.
18 MAR 2200	119	.00	.00	.00	0.	*	19 MAR 1030	269	.00	.00	.00	0.
18 MAR 2205	120	.00	.00	.00	0.	*	19 MAR 1035	270	.00	.00	.00	0.
18 MAR 2210	121	.00	.00	.00	0.	*	19 MAR 1040	271	.00	.00	.00	0.
18 MAR 2215	122	.00	.00	.00	0.	*	19 MAR 1045	272	.00	.00	.00	0.
18 MAR 2220	123	.00	.00	.00	0.	*	19 MAR 1050	273	.00	.00	.00	0.
18 MAR 2225	124	.00	.00	.00	0.	*	19 MAR 1055	274	.00	.00	.00	0.
18 MAR 2230	125	.00	.00	.00	0.	*	19 MAR 1100	275	.00	.00	.00	0.
18 MAR 2235	126	.00	.00	.00	0.	*	19 MAR 1105	276	.00	.00	.00	0.
18 MAR 2240	127	.00	.00	.00	0.	*	19 MAR 1110	277	.00	.00	.00	0.
18 MAR 2245	128	.00	.00	.00	0.	*	19 MAR 1115	278	.00	.00	.00	0.
18 MAR 2250	129	.00	.00	.00	0.	*	19 MAR 1120	279	.00	.00	.00	0.
18 MAR 2255	130	.00	.00	.00	0.	*	19 MAR 1125	280	.00	.00	.00	0.
18 MAR 2300	131	.00	.00	.00	0.	*	19 MAR 1130	281	.00	.00	.00	0.
18 MAR 2305	132	.00	.00	.00	0.	*	19 MAR 1135	282	.00	.00	.00	0.
18 MAR 2310	133	.00	.00	.00	0.	*	19 MAR 1140	283	.00	.00	.00	0.
18 MAR 2315	134	.00	.00	.00	0.	*	19 MAR 1145	284	.00	.00	.00	0.
18 MAR 2320	135	.00	.00	.00	0.	*	19 MAR 1150	285	.00	.00	.00	0.
18 MAR 2325	136	.00	.00	.00	0.	*	19 MAR 1155	286	.00	.00	.00	0.
18 MAR 2330	137	.00	.00	.00	0.	*	19 MAR 1200	287	.00	.00	.00	0.
18 MAR 2335	138	.00	.00	.00	0.	*	19 MAR 1205	288	.00	.00	.00	0.
18 MAR 2340	139	.00	.00	.00	0.	*	19 MAR 1210	289	.00	.00	.00	0.
18 MAR 2345	140	.00	.00	.00	0.	*	19 MAR 1215	290	.00	.00	.00	0.
18 MAR 2350	141	.00	.00	.00	0.	*	19 MAR 1220	291	.00	.00	.00	0.

18 MAR 2355	142	.00	.00	.00	0.	*	19 MAR 1225	292	.00	.00	.00	0.
19 MAR 0000	143	.00	.00	.00	0.	*	19 MAR 1230	293	.00	.00	.00	0.
19 MAR 0005	144	.00	.00	.00	0.	*	19 MAR 1235	294	.00	.00	.00	0.
19 MAR 0010	145	.00	.00	.00	0.	*	19 MAR 1240	295	.00	.00	.00	0.
19 MAR 0015	146	.00	.00	.00	0.	*	19 MAR 1245	296	.00	.00	.00	0.
19 MAR 0020	147	.00	.00	.00	0.	*	19 MAR 1250	297	.00	.00	.00	0.
19 MAR 0025	148	.00	.00	.00	0.	*	19 MAR 1255	298	.00	.00	.00	0.
19 MAR 0030	149	.00	.00	.00	0.	*	19 MAR 1300	299	.00	.00	.00	0.
19 MAR 0035	150	.00	.00	.00	0.	*	19 MAR 1305	300	.00	.00	.00	0.
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TOTAL RAINFALL = 2.91, TOTAL LOSS = 1.28, TOTAL EXCESS = 1.63

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
360.	4.75		78.	20.	19.	19.
		(INCHES)	1.620	1.620	1.620	1.620
		(AC-FT)	39.	39.	39.	39.

CUMULATIVE AREA = .45 SQ MI

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          *            *
 78 KK    *    ABC     *
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COMBINE SUB-BASIN C WITH MAINSTREAM HYDROGRAPH

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 81 KO        OUTPUT CONTROL VARIABLES
                   IPRNT          2  PRINT CONTROL
                   IPLOT          0  PLOT CONTROL
                   QSCAL         0.  HYDROGRAPH PLOT SCALE

 80 HC        HYDROGRAPH COMBINATION
                   ICOMP          2  NUMBER OF HYDROGRAPHS TO COMBINE
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HYDROGRAPH AT STATION ABC
SUM OF 2 HYDROGRAPHS

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DA MON HRMN	ORD	FLOW	DA MON HRMN	ORD	FLOW	DA MON HRMN	ORD	FLOW	DA MON HRMN	ORD	FLOW
18 MAR 1210	1	0.	18 MAR 1825	76	578.	19 MAR 0040	151	54.	19 MAR 0655	226	4.
18 MAR 1215	2	0.	18 MAR 1830	77	626.	19 MAR 0045	152	52.	19 MAR 0700	227	4.

18 MAR 1220	3	0.	*	18 MAR 1835	78	670.	*	19 MAR 0050	153	51.	*	19 MAR 0705	228	4.
18 MAR 1225	4	0.	*	18 MAR 1840	79	700.	*	19 MAR 0055	154	49.	*	19 MAR 0710	229	4.
18 MAR 1230	5	0.	*	18 MAR 1845	80	718.	*	19 MAR 0100	155	48.	*	19 MAR 0715	230	4.
18 MAR 1235	6	0.	*	18 MAR 1850	81	723.	*	19 MAR 0105	156	47.	*	19 MAR 0720	231	4.
18 MAR 1240	7	0.	*	18 MAR 1855	82	717.	*	19 MAR 0110	157	45.	*	19 MAR 0725	232	4.
18 MAR 1245	8	0.	*	18 MAR 1900	83	705.	*	19 MAR 0115	158	44.	*	19 MAR 0730	233	4.
18 MAR 1250	9	0.	*	18 MAR 1905	84	686.	*	19 MAR 0120	159	43.	*	19 MAR 0735	234	3.
18 MAR 1255	10	0.	*	18 MAR 1910	85	664.	*	19 MAR 0125	160	41.	*	19 MAR 0740	235	3.
18 MAR 1300	11	0.	*	18 MAR 1915	86	639.	*	19 MAR 0130	161	40.	*	19 MAR 0745	236	3.
18 MAR 1305	12	0.	*	18 MAR 1920	87	613.	*	19 MAR 0135	162	39.	*	19 MAR 0750	237	3.
18 MAR 1310	13	0.	*	18 MAR 1925	88	587.	*	19 MAR 0140	163	38.	*	19 MAR 0755	238	3.
18 MAR 1315	14	0.	*	18 MAR 1930	89	560.	*	19 MAR 0145	164	37.	*	19 MAR 0800	239	3.
18 MAR 1320	15	0.	*	18 MAR 1935	90	533.	*	19 MAR 0150	165	36.	*	19 MAR 0805	240	3.
18 MAR 1325	16	0.	*	18 MAR 1940	91	506.	*	19 MAR 0155	166	35.	*	19 MAR 0810	241	3.
18 MAR 1330	17	0.	*	18 MAR 1945	92	480.	*	19 MAR 0200	167	35.	*	19 MAR 0815	242	2.
18 MAR 1335	18	1.	*	18 MAR 1950	93	455.	*	19 MAR 0205	168	34.	*	19 MAR 0820	243	2.
18 MAR 1340	19	1.	*	18 MAR 1955	94	430.	*	19 MAR 0210	169	34.	*	19 MAR 0825	244	2.
18 MAR 1345	20	1.	*	18 MAR 2000	95	407.	*	19 MAR 0215	170	33.	*	19 MAR 0830	245	2.
18 MAR 1350	21	1.	*	18 MAR 2005	96	384.	*	19 MAR 0220	171	32.	*	19 MAR 0835	246	2.
18 MAR 1355	22	1.	*	18 MAR 2010	97	363.	*	19 MAR 0225	172	31.	*	19 MAR 0840	247	2.
18 MAR 1400	23	1.	*	18 MAR 2015	98	342.	*	19 MAR 0230	173	31.	*	19 MAR 0845	248	2.
18 MAR 1405	24	1.	*	18 MAR 2020	99	323.	*	19 MAR 0235	174	30.	*	19 MAR 0850	249	2.
18 MAR 1410	25	1.	*	18 MAR 2025	100	305.	*	19 MAR 0240	175	29.	*	19 MAR 0855	250	2.
18 MAR 1415	26	2.	*	18 MAR 2030	101	287.	*	19 MAR 0245	176	28.	*	19 MAR 0900	251	1.
18 MAR 1420	27	2.	*	18 MAR 2035	102	271.	*	19 MAR 0250	177	27.	*	19 MAR 0905	252	1.
18 MAR 1425	28	2.	*	18 MAR 2040	103	257.	*	19 MAR 0255	178	27.	*	19 MAR 0910	253	1.
18 MAR 1430	29	2.	*	18 MAR 2045	104	244.	*	19 MAR 0300	179	26.	*	19 MAR 0915	254	1.
18 MAR 1435	30	2.	*	18 MAR 2050	105	231.	*	19 MAR 0305	180	25.	*	19 MAR 0920	255	1.
18 MAR 1440	31	2.	*	18 MAR 2055	106	219.	*	19 MAR 0310	181	24.	*	19 MAR 0925	256	1.
18 MAR 1445	32	2.	*	18 MAR 2100	107	208.	*	19 MAR 0315	182	23.	*	19 MAR 0930	257	1.
18 MAR 1450	33	2.	*	18 MAR 2105	108	198.	*	19 MAR 0320	183	22.	*	19 MAR 0935	258	1.
18 MAR 1455	34	2.	*	18 MAR 2110	109	189.	*	19 MAR 0325	184	22.	*	19 MAR 0940	259	1.
18 MAR 1500	35	2.	*	18 MAR 2115	110	179.	*	19 MAR 0330	185	21.	*	19 MAR 0945	260	1.
18 MAR 1505	36	2.	*	18 MAR 2120	111	171.	*	19 MAR 0335	186	20.	*	19 MAR 0950	261	1.
18 MAR 1510	37	2.	*	18 MAR 2125	112	163.	*	19 MAR 0340	187	19.	*	19 MAR 0955	262	1.
18 MAR 1515	38	3.	*	18 MAR 2130	113	155.	*	19 MAR 0345	188	18.	*	19 MAR 1000	263	1.
18 MAR 1520	39	3.	*	18 MAR 2135	114	148.	*	19 MAR 0350	189	18.	*	19 MAR 1005	264	0.
18 MAR 1525	40	3.	*	18 MAR 2140	115	142.	*	19 MAR 0355	190	17.	*	19 MAR 1010	265	0.
18 MAR 1530	41	3.	*	18 MAR 2145	116	136.	*	19 MAR 0400	191	16.	*	19 MAR 1015	266	0.
18 MAR 1535	42	3.	*	18 MAR 2150	117	130.	*	19 MAR 0405	192	16.	*	19 MAR 1020	267	0.
18 MAR 1540	43	4.	*	18 MAR 2155	118	125.	*	19 MAR 0410	193	15.	*	19 MAR 1025	268	0.
18 MAR 1545	44	5.	*	18 MAR 2200	119	121.	*	19 MAR 0415	194	15.	*	19 MAR 1030	269	0.
18 MAR 1550	45	8.	*	18 MAR 2205	120	117.	*	19 MAR 0420	195	14.	*	19 MAR 1035	270	0.
18 MAR 1555	46	12.	*	18 MAR 2210	121	113.	*	19 MAR 0425	196	14.	*	19 MAR 1040	271	0.
18 MAR 1600	47	19.	*	18 MAR 2215	122	110.	*	19 MAR 0430	197	14.	*	19 MAR 1045	272	0.
18 MAR 1605	48	29.	*	18 MAR 2220	123	107.	*	19 MAR 0435	198	13.	*	19 MAR 1050	273	0.
18 MAR 1610	49	46.	*	18 MAR 2225	124	104.	*	19 MAR 0440	199	13.	*	19 MAR 1055	274	0.
18 MAR 1615	50	74.	*	18 MAR 2230	125	102.	*	19 MAR 0445	200	12.	*	19 MAR 1100	275	0.
18 MAR 1620	51	116.	*	18 MAR 2235	126	100.	*	19 MAR 0450	201	12.	*	19 MAR 1105	276	0.
18 MAR 1625	52	176.	*	18 MAR 2240	127	97.	*	19 MAR 0455	202	12.	*	19 MAR 1110	277	0.
18 MAR 1630	53	247.	*	18 MAR 2245	128	95.	*	19 MAR 0500	203	11.	*	19 MAR 1115	278	0.
18 MAR 1635	54	328.	*	18 MAR 2250	129	92.	*	19 MAR 0505	204	11.	*	19 MAR 1120	279	0.
18 MAR 1640	55	415.	*	18 MAR 2255	130	90.	*	19 MAR 0510	205	10.	*	19 MAR 1125	280	0.
18 MAR 1645	56	498.	*	18 MAR 2300	131	88.	*	19 MAR 0515	206	10.	*	19 MAR 1130	281	0.
18 MAR 1650	57	565.	*	18 MAR 2305	132	86.	*	19 MAR 0520	207	10.	*	19 MAR 1135	282	0.
18 MAR 1655	58	623.	*	18 MAR 2310	133	84.	*	19 MAR 0525	208	9.	*	19 MAR 1140	283	0.
18 MAR 1700	59	682.	*	18 MAR 2315	134	82.	*	19 MAR 0530	209	9.	*	19 MAR 1145	284	0.
18 MAR 1705	60	734.	*	18 MAR 2320	135	80.	*	19 MAR 0535	210	8.	*	19 MAR 1150	285	0.

18 MAR 1710	61	766.	*	18 MAR 2325	136	78.	*	19 MAR 0540	211	8.	*	19 MAR 1155	286	0.
18 MAR 1715	62	775.	*	18 MAR 2330	137	76.	*	19 MAR 0545	212	8.	*	19 MAR 1200	287	0.
18 MAR 1720	63	765.	*	18 MAR 2335	138	74.	*	19 MAR 0550	213	7.	*	19 MAR 1205	288	0.
18 MAR 1725	64	743.	*	18 MAR 2340	139	72.	*	19 MAR 0555	214	7.	*	19 MAR 1210	289	0.
18 MAR 1730	65	712.	*	18 MAR 2345	140	70.	*	19 MAR 0600	215	7.	*	19 MAR 1215	290	0.
18 MAR 1735	66	676.	*	18 MAR 2350	141	68.	*	19 MAR 0605	216	6.	*	19 MAR 1220	291	0.
18 MAR 1740	67	638.	*	18 MAR 2355	142	67.	*	19 MAR 0610	217	6.	*	19 MAR 1225	292	0.
18 MAR 1745	68	599.	*	19 MAR 0000	143	65.	*	19 MAR 0615	218	6.	*	19 MAR 1230	293	0.
18 MAR 1750	69	564.	*	19 MAR 0005	144	64.	*	19 MAR 0620	219	6.	*	19 MAR 1235	294	0.
18 MAR 1755	70	534.	*	19 MAR 0010	145	63.	*	19 MAR 0625	220	5.	*	19 MAR 1240	295	0.
18 MAR 1800	71	509.	*	19 MAR 0015	146	61.	*	19 MAR 0630	221	5.	*	19 MAR 1245	296	0.
18 MAR 1805	72	493.	*	19 MAR 0020	147	60.	*	19 MAR 0635	222	5.	*	19 MAR 1250	297	0.
18 MAR 1810	73	488.	*	19 MAR 0025	148	58.	*	19 MAR 0640	223	5.	*	19 MAR 1255	298	0.
18 MAR 1815	74	502.	*	19 MAR 0030	149	57.	*	19 MAR 0645	224	5.	*	19 MAR 1300	299	0.
18 MAR 1820	75	533.	*	19 MAR 0035	150	55.	*	19 MAR 0650	225	5.	*	19 MAR 1305	300	0.
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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
775.	5.08		435.	123.	119.	119.
		(INCHES)	.054	.061	.061	.061
		(AC-FT)	216.	245.	245.	245.

CUMULATIVE AREA = 75.29 SQ MI

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          *            *
82 KK     *    RTEAB   *     C2D
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ROUTE COMBINED HYDROGRAPH TO SUB BASIN D

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88 KO        OUTPUT CONTROL VARIABLES
                   IPRNT          2  PRINT CONTROL
                   IPLOT          0  PLOT CONTROL
                   QSCAL         0.  HYDROGRAPH PLOT SCALE

           HYDROGRAPH ROUTING DATA

84 RS        STORAGE ROUTING
                   NSTPS          3  NUMBER OF SUBREACHES
                    ITYP       FLOW  TYPE OF INITIAL CONDITION
                  RSVRIC        .00  INITIAL CONDITION
                       X        .00 WORKING R AND D COEFFICIENT

85 RC        NORMAL DEPTH CHANNEL
                     ANL       .025  LEFT OVERBANK N-VALUE
                    ANCH       .015  MAIN CHANNEL N-VALUE
                     ANR       .025  RIGHT OVERBANK N-VALUE
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RLNTH	4150.	REACH LENGTH
SEL	.0011	ENERGY SLOPE
ELMAX	104.8	MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

CROSS-SECTION DATA

		--- LEFT OVERBANK ---		+ ------ MAIN CHANNEL		------- +	--- RIGHT OVERBANK ---		
87 RY	ELEVATION	104.00	101.00	100.00	102.00	101.00	101.88	102.76	104.76
86 RX	DISTANCE	100.00	150.00	152.00	156.00	158.00	202.00	246.00	250.00

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COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	.01	.05	.11	.19	.50	1.23	2.39	3.97	5.96
OUTFLOW	.00	.08	.49	1.44	3.03	5.53	17.32	41.44	85.24	152.46
ELEVATION	100.00	100.25	100.50	100.75	101.00	101.25	101.50	101.75	102.00	102.25
STORAGE	8.34	11.13	14.17	17.33	20.60	23.98	27.47	31.02	34.58	38.16
OUTFLOW	239.77	348.44	483.20	639.39	816.19	1013.13	1230.29	1478.23	1745.00	2029.99
ELEVATION	102.51	102.76	103.01	103.26	103.51	103.76	104.01	104.26	104.51	104.76

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HYDROGRAPH AT STATION RTEAB

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DA MON HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA MON HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA MON HRMN	ORD	OUTFLOW	STORAGE	STAGE
18 MAR 1210	1	0.	.0	100.0	*	18 MAR 2030	101	351.	3.7	102.8	*	19 MAR 0450	201	16.	.4	101.5
18 MAR 1215	2	0.	.0	100.0	*	18 MAR 2035	102	334.	3.6	102.7	*	19 MAR 0455	202	15.	.4	101.5
18 MAR 1220	3	0.	.0	100.0	*	18 MAR 2040	103	317.	3.4	102.7	*	19 MAR 0500	203	15.	.4	101.5
18 MAR 1225	4	0.	.0	100.0	*	18 MAR 2045	104	301.	3.3	102.6	*	19 MAR 0505	204	15.	.4	101.4
18 MAR 1230	5	0.	.0	100.0	*	18 MAR 2050	105	285.	3.2	102.6	*	19 MAR 0510	205	14.	.3	101.4
18 MAR 1235	6	0.	.0	100.0	*	18 MAR 2055	106	270.	3.0	102.6	*	19 MAR 0515	206	14.	.3	101.4
8 MAR 1240	7	0.	.0	100.0	*	18 MAR 2100	107	255.	2.9	102.5	*	19 MAR 0520	207	13.	.3	101.4
8 MAR 1245	8	0.	.0	100.0	*	18 MAR 2105	108	242.	2.8	102.5	*	19 MAR 0525	208	13.	.3	101.4
8 MAR 1250	9	0.	.0	100.0	*	18 MAR 2110	109	231.	2.7	102.5	*	19 MAR 0530	209	12.	.3	101.4
8 MAR 1255	10	0.	.0	100.0	*	18 MAR 2115	110	220.	2.6	102.4	*	19 MAR 0535	210	12.	.3	101.4
8 MAR 1300	11	0.	.0	100.0	*	18 MAR 2120	111	209.	2.5	102.4	*	19 MAR 0540	211	12.	.3	101.4
8 MAR 1305	12	0.	.0	100.0	*	18 MAR 2125	112	199.	2.4	102.4	*	19 MAR 0545	212	11.	.3	101.4
8 MAR 1310	13	0.	.0	100.0	*	18 MAR 2130	113	189.	2.3	102.4	*	19 MAR 0550	213	11.	.3	101.4
18 MAR 1315	14	0.	.0	100.0	*	18 MAR 2135	114	180.	2.2	102.3	*	19 MAR 0555	214	10.	.3	101.4
18 MAR 1320	15	0.	.0	100.0	*	18 MAR 2140	115	172.	2.2	102.3	*	19 MAR 0600	215	10.	.3	101.3
18 MAR 1325	16	0.	.0	100.0	*	18 MAR 2145	116	164.	2.1	102.3	*	19 MAR 0605	216	10.	.3	101.3
18 MAR 1330	17	0.	.0	100.0	*	18 MAR 2150	117	157.	2.0	102.3	*	19 MAR 0610	217	9.	.2	101.3
18 MAR 1335	18	0.	.0	100.0	*	18 MAR 2155	118	150.	2.0	102.2	*	19 MAR 0615	218	9.	.2	101.3
18 MAR 1340	19	0.	.0	100.0	*	18 MAR 2200	119	144.	1.9	102.2	*	19 MAR 0620	219	9.	.2	101.3
18 MAR 1345	20	0.	.0	100.1	*	18 MAR 2205	120	138.	1.8	102.2	*	19 MAR 0625	220	8.	.2	101.3
18 MAR 1350	21	0.	.0	100.1	*	18 MAR 2210	121	133.	1.8	102.2	*	19 MAR 0630	221	8.	.2	101.3
18 MAR 1355	22	0.	.0	100.2	*	18 MAR 2215	122	128.	1.7	102.2	*	19 MAR 0635	222	8.	.2	101.3
18 MAR 1400	23	0.	.0	100.3	*	18 MAR 2220	123	123.	1.7	102.1	*	19 MAR 0640	223	7.	.2	101.3
18 MAR 1405	24	0.	.0	100.3	*	18 MAR 2225	124	119.	1.7	102.1	*	19 MAR 0645	224	7.	.2	101.3
18 MAR 1410	25	0.	.0	100.4	*	18 MAR 2230	125	115.	1.6	102.1	*	19 MAR 0650	225	7.	.2	101.3
18 MAR 1415	26	0.	.0	100.4	*	18 MAR 2235	126	112.	1.6	102.1	*	19 MAR 0655	226	6.	.2	101.3
18 MAR 1420	27	0.	.0	100.5	*	18 MAR 2240	127	109.	1.6	102.1	*	19 MAR 0700	227	6.	.2	101.3
18 MAR 1425	28	1.	.0	100.5	*	18 MAR 2245	128	106.	1.5	102.1	*	19 MAR 0705	228	6.	.2	101.3

18 MAR	1430	29	1.	.0	100.6	*	18 MAR	2250	129	103.	1.5	102.1	*	19 MAR	0710	229	6.	.2	101.3
18 MAR	1435	30	1.	.0	100.6	*	18 MAR	2255	130	101.	1.5	102.1	*	19 MAR	0715	230	6.	.2	101.3
18 MAR	1440	31	1.	.0	100.6	*	18 MAR	2300	131	98.	1.4	102.1	*	19 MAR	0720	231	6.	.2	101.3
18 MAR	1445	32	1.	.0	100.7	*	18 MAR	2305	132	96.	1.4	102.0	*	19 MAR	0725	232	5.	.2	101.2
18 MAR	1450	33	1.	.0	100.7	*	18 MAR	2310	133	93.	1.4	102.0	*	19 MAR	0730	233	5.	.2	101.2
18 MAR	1455	34	1.	.0	100.7	*	18 MAR	2315	134	91.	1.4	102.0	*	19 MAR	0735	234	5.	.2	101.2
18 MAR	1500	35	1.	.0	100.7	*	18 MAR	2320	135	89.	1.4	102.0	*	19 MAR	0740	235	5.	.2	101.2
18 MAR	1505	36	2.	.0	100.8	*	18 MAR	2325	136	87.	1.3	102.0	*	19 MAR	0745	236	5.	.2	101.2
18 MAR	1510	37	2.	.0	100.8	*	18 MAR	2330	137	85.	1.3	102.0	*	19 MAR	0750	237	5.	.1	101.2
18 MAR	1515	38	2.	.0	100.8	*	18 MAR	2335	138	83.	1.3	102.0	*	19 MAR	0755	238	5.	.1	101.2
18 MAR	1520	39	2.	.0	100.8	*	18 MAR	2340	139	82.	1.3	102.0	*	19 MAR	0800	239	5.	.1	101.2
18 MAR	1525	40	2.	.0	100.8	*	18 MAR	2345	140	80.	1.3	102.0	*	19 MAR	0805	240	5.	.1	101.2
18 MAR	1530	41	2.	.0	100.9	*	18 MAR	2350	141	78.	1.2	102.0	*	19 MAR	0810	241	5.	.1	101.2
18 MAR	1535	42	2.	.0	100.9	*	18 MAR	2355	142	76.	1.2	102.0	*	19 MAR	0815	242	5.	.1	101.2
18 MAR	1540	43	2.	.1	100.9	*	19 MAR	0000	143	74.	1.2	101.9	*	19 MAR	0820	243	4.	.1	101.1
18 MAR	1545	44	2.	.1	100.9	*	19 MAR	0005	144	73.	1.2	101.9	*	19 MAR	0825	244	4.	.1	101.1
18 MAR	1550	45	3.	.1	100.9	*	19 MAR	0010	145	71.	1.1	101.9	*	19 MAR	0830	245	4.	.1	101.1
18 MAR	1555	46	3.	.1	101.0	*	19 MAR	0015	146	69.	1.1	101.9	*	19 MAR	0835	246	4.	.1	101.1
18 MAR	1600	47	3.	.1	101.0	*	19 MAR	0020	147	68.	1.1	101.9	*	19 MAR	0840	247	4.	.1	101.1
18 MAR	1605	48	3.	.1	101.0	*	19 MAR	0025	148	66.	1.1	101.9	*	19 MAR	0845	248	4.	.1	101.1
18 MAR	1610	49	4.	.1	101.1	*	19 MAR	0030	149	65.	1.1	101.9	*	19 MAR	0850	249	4.	.1	101.1
18 MAR	1615	50	4.	.1	101.1	*	19 MAR	0035	150	63.	1.1	101.9	*	19 MAR	0855	250	4.	.1	101.0
18 MAR	1620	51	7.	.2	101.3	*	19 MAR	0040	151	62.	1.0	101.9	*	19 MAR	0900	251	3.	.1	101.0
18 MAR	1625	52	15.	.4	101.5	*	19 MAR	0045	152	60.	1.0	101.9	*	19 MAR	0905	252	3.	.1	101.0
18 MAR	1630	53	31.	.6	101.6	*	19 MAR	0050	153	59.	1.0	101.9	*	19 MAR	0910	253	3.	.1	101.0
18 MAR	1635	54	64.	1.1	101.9	*	19 MAR	0055	154	57.	1.0	101.8	*	19 MAR	0915	254	2.	.1	100.9
18 MAR	1640	55	118.	1.6	102.1	*	19 MAR	0100	155	56.	1.0	101.8	*	19 MAR	0920	255	2.	.0	100.9
18 MAR	1645	56	188.	2.3	102.4	*	19 MAR	0105	156	54.	1.0	101.8	*	19 MAR	0925	256	2.	.0	100.8
18 MAR	1650	57	270.	3.0	102.6	*	19 MAR	0110	157	53.	.9	101.8	*	19 MAR	0930	257	2.	.0	100.8
18 MAR	1655	58	359.	3.8	102.8	*	19 MAR	0115	158	51.	.9	101.8	*	19 MAR	0935	258	2.	.0	100.8
18 MAR	1700	59	453.	4.5	102.9	*	19 MAR	0120	159	50.	.9	101.8	*	19 MAR	0940	259	1.	.0	100.8
18 MAR	1705	60	539.	5.1	103.1	*	19 MAR	0125	160	49.	.9	101.8	*	19 MAR	0945	260	1.	.0	100.7
18 MAR	1710	61	614.	5.6	103.2	*	19 MAR	0130	161	47.	.9	101.8	*	19 MAR	0950	261	1.	.0	100.7
18 MAR	1715	62	677.	6.0	103.3	*	19 MAR	0135	162	46.	.8	101.8	*	19 MAR	0955	262	1.	.0	100.7
18 MAR	1720	63	722.	6.3	103.4	*	19 MAR	0140	163	44.	.8	101.8	*	19 MAR	1000	263	1.	.0	100.6
18 MAR	1725	64	747.	6.4	103.4	*	19 MAR	0145	164	43.	.8	101.8	*	19 MAR	1005	264	1.	.0	100.6
18 MAR	1730	65	753.	6.5	103.4	*	19 MAR	0150	165	42.	.8	101.8	*	19 MAR	1010	265	1.	.0	100.6
18 MAR	1735	66	744.	6.4	103.4	*	19 MAR	0155	166	41.	.8	101.8	*	19 MAR	1015	266	1.	.0	100.6
18 MAR	1740	67	723.	6.3	103.4	*	19 MAR	0200	167	40.	.8	101.7	*	19 MAR	1020	267	1.	.0	100.6
18 MAR	1745	68	694.	6.1	103.3	*	19 MAR	0205	168	40.	.8	101.7	*	19 MAR	1025	268	1.	.0	100.6
18 MAR	1750	69	661.	5.9	103.3	*	19 MAR	0210	169	39.	.8	101.7	*	19 MAR	1030	269	1.	.0	100.6
18 MAR	1755	70	628.	5.7	103.2	*	19 MAR	0215	170	38.	.7	101.7	*	19 MAR	1035	270	1.	.0	100.5
18 MAR	1800	71	597.	5.5	103.2	*	19 MAR	0220	171	37.	.7	101.7	*	19 MAR	1040	271	1.	.0	100.5
18 MAR	1805	72	566.	5.3	103.1	*	19 MAR	0225	172	37.	.7	101.7	*	19 MAR	1045	272	1.	.0	100.5
18 MAR	1810	73	539.	5.1	103.1	*	19 MAR	0230	173	36.	.7	101.7	*	19 MAR	1050	273	1.	.0	100.5
18 MAR	1815	74	519.	5.0	103.1	*	19 MAR	0235	174	35.	.7	101.7	*	19 MAR	1055	274	1.	.0	100.5
18 MAR	1820	75	508.	4.9	103.0	*	19 MAR	0240	175	34.	.7	101.7	*	19 MAR	1100	275	1.	.0	100.5
18 MAR	1825	76	510.	4.9	103.0	*	19 MAR	0245	176	33.	.7	101.7	*	19 MAR	1105	276	1.	.0	100.5
18 MAR	1830	77	526.	5.0	103.1	*	19 MAR	0250	177	33.	.7	101.7	*	19 MAR	1110	277	0.	.0	100.5
18 MAR	1835	78	554.	5.2	103.1	*	19 MAR	0255	178	32.	.6	101.7	*	19 MAR	1115	278	0.	.0	100.5
18 MAR	1840	79	590.	5.4	103.2	*	19 MAR	0300	179	31.	.6	101.6	*	19 MAR	1120	279	0.	.0	100.5
18 MAR	1845	80	628.	5.7	103.2	*	19 MAR	0305	180	30.	.6	101.6	*	19 MAR	1125	280	0.	.0	100.5
18 MAR	1850	81	665.	5.9	103.3	*	19 MAR	0310	181	30.	.6	101.6	*	19 MAR	1130	281	0.	.0	100.5
18 MAR	1855	82	692.	6.1	103.3	*	19 MAR	0315	182	29.	.6	101.6	*	19 MAR	1135	282	0.	.0	100.5
18 MAR	1900	83	706.	6.2	103.4	*	19 MAR	0320	183	28.	.6	101.6	*	19 MAR	1140	283	0.	.0	100.5
18 MAR	1905	84	710.	6.2	103.4	*	19 MAR	0325	184	27.	.6	101.6	*	19 MAR	1145	284	0.	.0	100.5
18 MAR	1910	85	705.	6.2	103.3	*	19 MAR	0330	185	26.	.6	101.6	*	19 MAR	1150	285	0.	.0	100.5
18 MAR	1915	86	692.	6.1	103.3	*	19 MAR	0335	186	26.	.5	101.6	*	19 MAR	1155	286	0.	.0	100.5

18	MAR	1920	87	675.	6.0	103.3	*	19	MAR	0340	187	25.	.5	101.6	*	19	MAR	1200	287	0.	.0	100.5
18	MAR	1925	88	654.	5.9	103.3	*	19	MAR	0345	188	24.	.5	101.6	*	19	MAR	1205	288	0.	.0	100.5
18	MAR	1930	89	631.	5.7	103.2	*	19	MAR	0350	189	23.	.5	101.6	*	19	MAR	1210	289	0.	.0	100.5
18	MAR	1935	90	608.	5.6	103.2	*	19	MAR	0355	190	22.	.5	101.6	*	19	MAR	1215	290	0.	.0	100.5
18	MAR	1940	91	583.	5.4	103.2	*	19	MAR	0400	191	22.	.5	101.5	*	19	MAR	1220	291	0.	.0	100.5
18	MAR	1945	92	557.	5.2	103.1	*	19	MAR	0405	192	21.	.5	101.5	*	19	MAR	1225	292	0.	.0	100.5
18	MAR	1950	93	531.	5.0	103.1	*	19	MAR	0410	193	20.	.5	101.5	*	19	MAR	1230	293	0.	.0	100.5
18	MAR	1955	94	505.	4.9	103.0	*	19	MAR	0415	194	19.	.4	101.5	*	19	MAR	1235	294	0.	.0	100.5
18	MAR	2000	95	481.	4.7	103.0	*	19	MAR	0420	195	19.	.4	101.5	*	19	MAR	1240	295	0.	.0	100.5
18	MAR	2005	96	459.	4.5	103.0	*	19	MAR	0425	196	18.	.4	101.5	*	19	MAR	1245	296	0.	.0	100.5
18	MAR	2010	97	437.	4.4	102.9	*	19	MAR	0430	197	17.	.4	101.5	*	19	MAR	1250	297	0.	.0	100.5
18	MAR	2015	98	414.	4.2	102.9	*	19	MAR	0435	198	17.	.4	101.5	*	19	MAR	1255	298	0.	.0	100.5
18	MAR	2020	99	392.	4.0	102.8	*	19	MAR	0440	199	17.	.4	101.5	*	19	MAR	1300	299	0.	.0	100.5
18	MAR	2025	100	370.	3.9	102.8	*	19	MAR	0445	200	16.	.4	101.5	*	19	MAR	1305	300	0.	.0	100.5
							*								*							

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)					
		(CFS)				
753.	5.33		432.	123.	119.	119.
		(INCHES)	.053	.061	.061	.061
		(AC-FT)	214.	244.	244.	244.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
(AC-FT)	(HR)				
6.	5.33	4.	1.	1.	1.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
(FEET)	(HR)				
103.42	5.33	102.85	101.59	101.53	101.53

CUMULATIVE AREA = 75.29 SQ MI

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          *             *
89 KK     *      D      *
          *             *
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SUB-BASIN D
6-HOUR RAINFALL, PATTERN NO. 2.00 WAS USED TO FIND TC & R FOR THIS BASIN
THIS BASIN USED RAINFALL REDUCTION FACTOR OF .975
L = 1.80 Kb = .048 Adj. Slope = 5.5

99 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE

SUBBASIN RUNOFF DATA

94 BA SUBBASIN CHARACTERISTICS

TAREA	.69	SUBBASIN AREA

PRECIPITATION DATA

18 PB

STORM	2.91	BASIN TOTAL PRECIPITATION

18 PI INCREMENTAL PRECIPITATION PATTERN

.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.01	.01	.01	.01	.01	.01	.03
.03	.03	.06	.06	.06	.08	.08	.08	.05	.05
.05	.02	.02	.02	.01	.01	.01	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00								

95 LG GREEN AND AMPT LOSS RATE

STRTL	.27	STARTING LOSS
DTH	.25	MOISTURE DEFICIT
PSIF	3.60	WETTING FRONT SUCTION
XKSAT	.15	HYDRAULIC CONDUCTIVITY
RTIMP	23.00	PERCENT IMPERVIOUS AREA

96 UC CLARK UNITGRAPH

TC	1.50	TIME OF CONCENTRATION
R	1.15	STORAGE COEFFICIENT

97 UA ACCUMULATED-AREA VS. TIME, 11 ORDINATES

.0	3.0	5.0	8.0	12.0	20.0	43.0	75.0	90.0	96.0
100.0									

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UNIT HYDROGRAPH PARAMETERS

CLARK TC= 1.50 HR, R= 1.15 HR

SNYDER TP= 1.28 HR, CP= .72

UNIT HYDROGRAPH

85 END-OF-PERIOD ORDINATES

3.	9.	13.	17.	21.	27.	33.	42.	55.	83.
127.	177.	224.	250.	258.	256.	249.	240.	227.	211.
197.	183.	170.	158.	147.	137.	127.	118.	110.	102.
95.	88.	82.	77.	71.	66.	62.	57.	53.	50.
46.	43.	40.	37.	34.	32.	30.	28.	26.	24.
22.	21.	19.	18.	17.	16.	14.	13.	12.	12.
11.	10.	9.	9.	8.	8.	7.	6.	6.	6.
5.	5.	5.	4.	4.	4.	3.	3.	3.	3.
3.	2.	2.	2.	2.					

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HYDROGRAPH AT STATION D

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DA MON HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA MON HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
						*						
18 MAR 1210	1	.00	.00	.00	0.	*	19 MAR 0040	151	.00	.00	.00	0.
18 MAR 1215	2	.01	.01	.00	0.	*	19 MAR 0045	152	.00	.00	.00	0.
18 MAR 1220	3	.01	.01	.00	0.	*	19 MAR 0050	153	.00	.00	.00	0.
18 MAR 1225	4	.01	.01	.00	0.	*	19 MAR 0055	154	.00	.00	.00	0.
18 MAR 1230	5	.01	.01	.00	0.	*	19 MAR 0100	155	.00	.00	.00	0.
18 MAR 1235	6	.01	.01	.00	0.	*	19 MAR 0105	156	.00	.00	.00	0.
18 MAR 1240	7	.01	.01	.00	0.	*	19 MAR 0110	157	.00	.00	.00	0.
18 MAR 1245	8	.01	.01	.00	0.	*	19 MAR 0115	158	.00	.00	.00	0.
18 MAR 1250	9	.01	.01	.00	0.	*	19 MAR 0120	159	.00	.00	.00	0.
18 MAR 1255	10	.01	.01	.00	0.	*	19 MAR 0125	160	.00	.00	.00	0.
18 MAR 1300	11	.01	.01	.00	1.	*	19 MAR 0130	161	.00	.00	.00	0.
18 MAR 1305	12	.01	.01	.00	1.	*	19 MAR 0135	162	.00	.00	.00	0.
18 MAR 1310	13	.01	.01	.00	1.	*	19 MAR 0140	163	.00	.00	.00	0.
18 MAR 1315	14	.01	.01	.00	2.	*	19 MAR 0145	164	.00	.00	.00	0.
18 MAR 1320	15	.01	.01	.00	2.	*	19 MAR 0150	165	.00	.00	.00	0.
18 MAR 1325	16	.01	.01	.00	3.	*	19 MAR 0155	166	.00	.00	.00	0.
18 MAR 1330	17	.01	.01	.00	3.	*	19 MAR 0200	167	.00	.00	.00	0.
18 MAR 1335	18	.01	.01	.00	4.	*	19 MAR 0205	168	.00	.00	.00	0.
18 MAR 1340	19	.01	.01	.00	4.	*	19 MAR 0210	169	.00	.00	.00	0.
18 MAR 1345	20	.01	.01	.00	4.	*	19 MAR 0215	170	.00	.00	.00	0.
18 MAR 1350	21	.01	.01	.00	5.	*	19 MAR 0220	171	.00	.00	.00	0.
18 MAR 1355	22	.01	.01	.00	5.	*	19 MAR 0225	172	.00	.00	.00	0.
18 MAR 1400	23	.01	.01	.00	6.	*	19 MAR 0230	173	.00	.00	.00	0.
18 MAR 1405	24	.01	.01	.00	6.	*	19 MAR 0235	174	.00	.00	.00	0.
18 MAR 1410	25	.01	.01	.00	6.	*	19 MAR 0240	175	.00	.00	.00	0.
18 MAR 1415	26	.01	.01	.00	7.	*	19 MAR 0245	176	.00	.00	.00	0.
18 MAR 1420	27	.01	.01	.00	7.	*	19 MAR 0250	177	.00	.00	.00	0.
18 MAR 1425	28	.01	.01	.00	7.	*	19 MAR 0255	178	.00	.00	.00	0.
18 MAR 1430	29	.01	.01	.00	8.	*	19 MAR 0300	179	.00	.00	.00	0.
18 MAR 1435	30	.01	.01	.00	8.	*	19 MAR 0305	180	.00	.00	.00	0.
18 MAR 1440	31	.01	.01	.00	8.	*	19 MAR 0310	181	.00	.00	.00	0.
18 MAR 1445	32	.01	.01	.00	8.	*	19 MAR 0315	182	.00	.00	.00	0.
18 MAR 1450	33	.01	.01	.00	8.	*	19 MAR 0320	183	.00	.00	.00	0.
18 MAR 1455	34	.01	.01	.00	9.	*	19 MAR 0325	184	.00	.00	.00	0.
18 MAR 1500	35	.02	.01	.00	9.	*	19 MAR 0330	185	.00	.00	.00	0.
18 MAR 1505	36	.02	.01	.00	9.	*	19 MAR 0335	186	.00	.00	.00	0.
18 MAR 1510	37	.02	.01	.00	9.	*	19 MAR 0340	187	.00	.00	.00	0.
18 MAR 1515	38	.04	.03	.01	9.	*	19 MAR 0345	188	.00	.00	.00	0.
18 MAR 1520	39	.04	.03	.01	10.	*	19 MAR 0350	189	.00	.00	.00	0.
18 MAR 1525	40	.04	.03	.01	10.	*	19 MAR 0355	190	.00	.00	.00	0.
18 MAR 1530	41	.09	.04	.04	11.	*	19 MAR 0400	191	.00	.00	.00	0.
18 MAR 1535	42	.09	.04	.05	11.	*	19 MAR 0405	192	.00	.00	.00	0.
18 MAR 1540	43	.09	.03	.05	12.	*	19 MAR 0410	193	.00	.00	.00	0.
18 MAR 1545	44	.19	.03	.16	14.	*	19 MAR 0415	194	.00	.00	.00	0.
18 MAR 1550	45	.19	.03	.16	17.	*	19 MAR 0420	195	.00	.00	.00	0.
18 MAR 1555	46	.19	.03	.16	20.	*	19 MAR 0425	196	.00	.00	.00	0.
18 MAR 1600	47	.23	.03	.20	24.	*	19 MAR 0430	197	.00	.00	.00	0.
18 MAR 1605	48	.23	.03	.20	30.	*	19 MAR 0435	198	.00	.00	.00	0.
18 MAR 1610	49	.23	.02	.21	37.	*	19 MAR 0440	199	.00	.00	.00	0.
18 MAR 1615	50	.14	.02	.11	46.	*	19 MAR 0445	200	.00	.00	.00	0.
18 MAR 1620	51	.14	.02	.11	58.	*	19 MAR 0450	201	.00	.00	.00	0.
18 MAR 1625	52	.14	.02	.11	72.	*	19 MAR 0455	202	.00	.00	.00	0.
18 MAR 1630	53	.06	.02	.04	92.	*	19 MAR 0500	203	.00	.00	.00	0.
18 MAR 1635	54	.06	.02	.04	116.	*	19 MAR 0505	204	.00	.00	.00	0.
18 MAR 1640	55	.06	.02	.04	147.	*	19 MAR 0510	205	.00	.00	.00	0.
18 MAR 1645	56	.04	.02	.02	183.	*	19 MAR 0515	206	.00	.00	.00	0.

18 MAR 1650	57	.04	.02	.02	222.	*	19 MAR 0520	207	.00	.00	.00	0.
18 MAR 1655	58	.04	.02	.02	262.	*	19 MAR 0525	208	.00	.00	.00	0.
18 MAR 1700	59	.01	.01	.00	300.	*	19 MAR 0530	209	.00	.00	.00	0.
18 MAR 1705	60	.01	.01	.00	334.	*	19 MAR 0535	210	.00	.00	.00	0.
18 MAR 1710	61	.01	.01	.00	360.	*	19 MAR 0540	211	.00	.00	.00	0.
18 MAR 1715	62	.01	.01	.00	377.	*	19 MAR 0545	212	.00	.00	.00	0.
18 MAR 1720	63	.01	.01	.00	386.	*	19 MAR 0550	213	.00	.00	.00	0.
18 MAR 1725	64	.01	.01	.00	388.	*	19 MAR 0555	214	.00	.00	.00	0.
18 MAR 1730	65	.01	.01	.00	383.	*	19 MAR 0600	215	.00	.00	.00	0.
18 MAR 1735	66	.01	.01	.00	373.	*	19 MAR 0605	216	.00	.00	.00	0.
18 MAR 1740	67	.01	.01	.00	360.	*	19 MAR 0610	217	.00	.00	.00	0.
18 MAR 1745	68	.01	.01	.00	344.	*	19 MAR 0615	218	.00	.00	.00	0.
18 MAR 1750	69	.01	.01	.00	327.	*	19 MAR 0620	219	.00	.00	.00	0.
18 MAR 1755	70	.01	.01	.00	309.	*	19 MAR 0625	220	.00	.00	.00	0.
18 MAR 1800	71	.01	.01	.00	290.	*	19 MAR 0630	221	.00	.00	.00	0.
18 MAR 1805	72	.01	.01	.00	273.	*	19 MAR 0635	222	.00	.00	.00	0.
18 MAR 1810	73	.01	.01	.00	255.	*	19 MAR 0640	223	.00	.00	.00	0.
18 MAR 1815	74	.00	.00	.00	239.	*	19 MAR 0645	224	.00	.00	.00	0.
18 MAR 1820	75	.00	.00	.00	223.	*	19 MAR 0650	225	.00	.00	.00	0.
18 MAR 1825	76	.00	.00	.00	209.	*	19 MAR 0655	226	.00	.00	.00	0.
18 MAR 1830	77	.00	.00	.00	195.	*	19 MAR 0700	227	.00	.00	.00	0.
18 MAR 1835	78	.00	.00	.00	183.	*	19 MAR 0705	228	.00	.00	.00	0.
18 MAR 1840	79	.00	.00	.00	171.	*	19 MAR 0710	229	.00	.00	.00	0.
18 MAR 1845	80	.00	.00	.00	160.	*	19 MAR 0715	230	.00	.00	.00	0.
18 MAR 1850	81	.00	.00	.00	149.	*	19 MAR 0720	231	.00	.00	.00	0.
18 MAR 1855	82	.00	.00	.00	140.	*	19 MAR 0725	232	.00	.00	.00	0.
18 MAR 1900	83	.00	.00	.00	131.	*	19 MAR 0730	233	.00	.00	.00	0.
18 MAR 1905	84	.00	.00	.00	122.	*	19 MAR 0735	234	.00	.00	.00	0.
18 MAR 1910	85	.00	.00	.00	114.	*	19 MAR 0740	235	.00	.00	.00	0.
18 MAR 1915	86	.00	.00	.00	106.	*	19 MAR 0745	236	.00	.00	.00	0.
18 MAR 1920	87	.00	.00	.00	99.	*	19 MAR 0750	237	.00	.00	.00	0.
18 MAR 1925	88	.00	.00	.00	92.	*	19 MAR 0755	238	.00	.00	.00	0.
18 MAR 1930	89	.00	.00	.00	86.	*	19 MAR 0800	239	.00	.00	.00	0.
18 MAR 1935	90	.00	.00	.00	80.	*	19 MAR 0805	240	.00	.00	.00	0.
18 MAR 1940	91	.00	.00	.00	74.	*	19 MAR 0810	241	.00	.00	.00	0.
18 MAR 1945	92	.00	.00	.00	69.	*	19 MAR 0815	242	.00	.00	.00	0.
18 MAR 1950	93	.00	.00	.00	64.	*	19 MAR 0820	243	.00	.00	.00	0.
18 MAR 1955	94	.00	.00	.00	60.	*	19 MAR 0825	244	.00	.00	.00	0.
18 MAR 2000	95	.00	.00	.00	56.	*	19 MAR 0830	245	.00	.00	.00	0.
18 MAR 2005	96	.00	.00	.00	52.	*	19 MAR 0835	246	.00	.00	.00	0.
18 MAR 2010	97	.00	.00	.00	48.	*	19 MAR 0840	247	.00	.00	.00	0.
18 MAR 2015	98	.00	.00	.00	45.	*	19 MAR 0845	248	.00	.00	.00	0.
18 MAR 2020	99	.00	.00	.00	42.	*	19 MAR 0850	249	.00	.00	.00	0.
18 MAR 2025	100	.00	.00	.00	39.	*	19 MAR 0855	250	.00	.00	.00	0.
18 MAR 2030	101	.00	.00	.00	36.	*	19 MAR 0900	251	.00	.00	.00	0.
18 MAR 2035	102	.00	.00	.00	33.	*	19 MAR 0905	252	.00	.00	.00	0.
18 MAR 2040	103	.00	.00	.00	31.	*	19 MAR 0910	253	.00	.00	.00	0.
18 MAR 2045	104	.00	.00	.00	29.	*	19 MAR 0915	254	.00	.00	.00	0.
18 MAR 2050	105	.00	.00	.00	27.	*	19 MAR 0920	255	.00	.00	.00	0.
18 MAR 2055	106	.00	.00	.00	25.	*	19 MAR 0925	256	.00	.00	.00	0.
18 MAR 2100	107	.00	.00	.00	23.	*	19 MAR 0930	257	.00	.00	.00	0.
18 MAR 2105	108	.00	.00	.00	22.	*	19 MAR 0935	258	.00	.00	.00	0.
18 MAR 2110	109	.00	.00	.00	20.	*	19 MAR 0940	259	.00	.00	.00	0.
18 MAR 2115	110	.00	.00	.00	19.	*	19 MAR 0945	260	.00	.00	.00	0.
18 MAR 2120	111	.00	.00	.00	17.	*	19 MAR 0950	261	.00	.00	.00	0.
18 MAR 2125	112	.00	.00	.00	16.	*	19 MAR 0955	262	.00	.00	.00	0.
18 MAR 2130	113	.00	.00	.00	15.	*	19 MAR 1000	263	.00	.00	.00	0.
18 MAR 2135	114	.00	.00	.00	14.	*	19 MAR 1005	264	.00	.00	.00	0.

18 MAR 2140	115	.00	.00	.00	13.	*	19 MAR 1010	265	.00	.00	.00	0.
18 MAR 2145	116	.00	.00	.00	12.	*	19 MAR 1015	266	.00	.00	.00	0.
18 MAR 2150	117	.00	.00	.00	11.	*	19 MAR 1020	267	.00	.00	.00	0.
18 MAR 2155	118	.00	.00	.00	10.	*	19 MAR 1025	268	.00	.00	.00	0.
18 MAR 2200	119	.00	.00	.00	10.	*	19 MAR 1030	269	.00	.00	.00	0.
18 MAR 2205	120	.00	.00	.00	9.	*	19 MAR 1035	270	.00	.00	.00	0.
18 MAR 2210	121	.00	.00	.00	8.	*	19 MAR 1040	271	.00	.00	.00	0.
18 MAR 2215	122	.00	.00	.00	8.	*	19 MAR 1045	272	.00	.00	.00	0.
18 MAR 2220	123	.00	.00	.00	7.	*	19 MAR 1050	273	.00	.00	.00	0.
18 MAR 2225	124	.00	.00	.00	7.	*	19 MAR 1055	274	.00	.00	.00	0.
18 MAR 2230	125	.00	.00	.00	6.	*	19 MAR 1100	275	.00	.00	.00	0.
18 MAR 2235	126	.00	.00	.00	6.	*	19 MAR 1105	276	.00	.00	.00	0.
18 MAR 2240	127	.00	.00	.00	5.	*	19 MAR 1110	277	.00	.00	.00	0.
18 MAR 2245	128	.00	.00	.00	5.	*	19 MAR 1115	278	.00	.00	.00	0.
18 MAR 2250	129	.00	.00	.00	4.	*	19 MAR 1120	279	.00	.00	.00	0.
18 MAR 2255	130	.00	.00	.00	4.	*	19 MAR 1125	280	.00	.00	.00	0.
18 MAR 2300	131	.00	.00	.00	3.	*	19 MAR 1130	281	.00	.00	.00	0.
18 MAR 2305	132	.00	.00	.00	2.	*	19 MAR 1135	282	.00	.00	.00	0.
18 MAR 2310	133	.00	.00	.00	2.	*	19 MAR 1140	283	.00	.00	.00	0.
18 MAR 2315	134	.00	.00	.00	1.	*	19 MAR 1145	284	.00	.00	.00	0.
18 MAR 2320	135	.00	.00	.00	1.	*	19 MAR 1150	285	.00	.00	.00	0.
18 MAR 2325	136	.00	.00	.00	1.	*	19 MAR 1155	286	.00	.00	.00	0.
18 MAR 2330	137	.00	.00	.00	1.	*	19 MAR 1200	287	.00	.00	.00	0.
18 MAR 2335	138	.00	.00	.00	0.	*	19 MAR 1205	288	.00	.00	.00	0.
18 MAR 2340	139	.00	.00	.00	0.	*	19 MAR 1210	289	.00	.00	.00	0.
18 MAR 2345	140	.00	.00	.00	0.	*	19 MAR 1215	290	.00	.00	.00	0.
18 MAR 2350	141	.00	.00	.00	0.	*	19 MAR 1220	291	.00	.00	.00	0.
18 MAR 2355	142	.00	.00	.00	0.	*	19 MAR 1225	292	.00	.00	.00	0.
19 MAR 0000	143	.00	.00	.00	0.	*	19 MAR 1230	293	.00	.00	.00	0.
19 MAR 0005	144	.00	.00	.00	0.	*	19 MAR 1235	294	.00	.00	.00	0.
19 MAR 0010	145	.00	.00	.00	0.	*	19 MAR 1240	295	.00	.00	.00	0.
19 MAR 0015	146	.00	.00	.00	0.	*	19 MAR 1245	296	.00	.00	.00	0.
19 MAR 0020	147	.00	.00	.00	0.	*	19 MAR 1250	297	.00	.00	.00	0.
19 MAR 0025	148	.00	.00	.00	0.	*	19 MAR 1255	298	.00	.00	.00	0.
19 MAR 0030	149	.00	.00	.00	0.	*	19 MAR 1300	299	.00	.00	.00	0.
19 MAR 0035	150	.00	.00	.00	0.	*	19 MAR 1305	300	.00	.00	.00	0.
						*						

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TOTAL RAINFALL = 2.91, TOTAL LOSS = 1.00, TOTAL EXCESS = 1.91

EAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
388.	5.25		136.	35.	34.	34.
		(INCHES)	1.837	1.901	1.901	1.901
		(AC-FT)	67.	70.	70.	70.

CUMULATIVE AREA = .69 SQ MI

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          *           *
100 KK    *     RTED  *
          *           *
          **************
                    ROUTE SUB BASIN D THROUGH RESERVOIR TO REMOVE DEVELOPED AREA STORAGE

107 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          2  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL         0.  HYDROGRAPH PLOT SCALE

             HYDROGRAPH ROUTING DATA

102 RS          STORAGE ROUTING
                     NSTPS          1  NUMBER OF SUBREACHES
                      ITYP       STOR  TYPE OF INITIAL CONDITION
                    RSVRIC        .00  INITIAL CONDITION
                         X        .00 WORKING R AND D COEFFICIENT

103 SV            STORAGE         .0      10.0      20.0      30.0      35.3      37.7      40.0

104 SE          ELEVATION     100.00    101.00    102.00    103.00    104.00    104.50    105.00

105 SQ          DISCHARGE         0.        0.        0.        0.        0.     1500.     3000.

106 SE          ELEVATION     100.00    101.00    102.00    103.00    104.00    104.50    105.00

                                                   ***

                                   COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

          STORAGE        .00     10.00     20.00     30.00     35.29     37.65     40.00
          OUTFLOW        .00       .00       .00       .00       .00   1500.00   3000.00
        ELEVATION     100.00    101.00    102.00    103.00    104.00    104.50    105.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN        0. TO     3000.
                THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
                THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

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                                   HYDROGRAPH AT STATION    RTED

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                                        *                                        *
 DA MON HRMN ORD  OUTFLOW  STORAGE   STAGE * DA MON HRMN ORD  OUTFLOW  STORAGE   STAGE * DA MON HRMN ORD  OUTFLOW  STORAGE   STAGE
                                        *                                        *
 18 MAR 1210   1      0.       .0   100.0 * 18 MAR 2030 101     37.     35.3   104.0 * 19 MAR 0450 201      0.     35.3   104.0
 18 MAR 1215   2      0.       .0   100.0 * 18 MAR 2035 102     34.     35.3   104.0 * 19 MAR 0455 202      0.     35.3   104.0
 18 MAR 1220   3      0.       .0   100.0 * 18 MAR 2040 103     32.     35.3   104.0 * 19 MAR 0500 203      0.     35.3   104.0
 18 MAR 1225   4      0.       .0   100.0 * 18 MAR 2045 104     29.     35.3   104.0 * 19 MAR 0505 204      0.     35.3   104.0
 18 MAR 1230   5      0.       .0   100.0 * 18 MAR 2050 105     27.     35.3   104.0 * 19 MAR 0510 205      0.     35.3   104.0
 18 MAR 1235   6      0.       .0   100.0 * 18 MAR 2055 106     25.     35.3   104.0 * 19 MAR 0515 206      0.     35.3   104.0
 18 MAR 1240   7      0.       .0   100.0 * 18 MAR 2100 107     24.     35.3   104.0 * 19 MAR 0520 207      0.     35.3   104.0
 18 MAR 1245   8      0.       .0   100.0 * 18 MAR 2105 108     22.     35.3   104.0 * 19 MAR 0525 208      0.     35.3   104.0
 18 MAR 1250   9      0.       .0   100.0 * 18 MAR 2110 109     20.     35.3   104.0 * 19 MAR 0530 209      0.     35.3   104.0
 18 MAR 1255  10      0.       .0   100.0 * 18 MAR 2115 110     19.     35.3   104.0 * 19 MAR 0535 210      0.     35.3   104.0
 18 MAR 1300  11      0.       .0   100.0 * 18 MAR 2120 111     18.     35.3   104.0 * 19 MAR 0540 211      0.     35.3   104.0
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18 MAR	1305	12	0.	.0	100.0	*	18 MAR	2125	112	16.	35.3	104.0	*	19 MAR	0545	212	0.	35.3	104.0
18 MAR	1310	13	0.	.0	100.0	*	18 MAR	2130	113	15.	35.3	104.0	*	19 MAR	0550	213	0.	35.3	104.0
18 MAR	1315	14	0.	.0	100.0	*	18 MAR	2135	114	14.	35.3	104.0	*	19 MAR	0555	214	0.	35.3	104.0
18 MAR	1320	15	0.	.0	100.0	*	18 MAR	2140	115	13.	35.3	104.0	*	19 MAR	0600	215	0.	35.3	104.0
18 MAR	1325	16	0.	.1	100.0	*	18 MAR	2145	116	12.	35.3	104.0	*	19 MAR	0605	216	0.	35.3	104.0
18 MAR	1330	17	0.	.1	100.0	*	18 MAR	2150	117	11.	35.3	104.0	*	19 MAR	0610	217	0.	35.3	104.0
18 MAR	1335	18	0.	.1	100.0	*	18 MAR	2155	118	11.	35.3	104.0	*	19 MAR	0615	218	0.	35.3	104.0
18 MAR	1340	19	0.	.1	100.0	*	18 MAR	2200	119	10.	35.3	104.0	*	19 MAR	0620	219	0.	35.3	104.0
18 MAR	1345	20	0.	.2	100.0	*	18 MAR	2205	120	9.	35.3	104.0	*	19 MAR	0625	220	0.	35.3	104.0
18 MAR	1350	21	0.	.2	100.0	*	18 MAR	2210	121	9.	35.3	104.0	*	19 MAR	0630	221	0.	35.3	104.0
18 MAR	1355	22	0.	.2	100.0	*	18 MAR	2215	122	8.	35.3	104.0	*	19 MAR	0635	222	0.	35.3	104.0
18 MAR	1400	23	0.	.3	100.0	*	18 MAR	2220	123	7.	35.3	104.0	*	19 MAR	0640	223	0.	35.3	104.0
18 MAR	1405	24	0.	.3	100.0	*	18 MAR	2225	124	7.	35.3	104.0	*	19 MAR	0645	224	0.	35.3	104.0
18 MAR	1410	25	0.	.4	100.0	*	18 MAR	2230	125	6.	35.3	104.0	*	19 MAR	0650	225	0.	35.3	104.0
18 MAR	1415	26	0.	.4	100.0	*	18 MAR	2235	126	6.	35.3	104.0	*	19 MAR	0655	226	0.	35.3	104.0
18 MAR	1420	27	0.	.4	100.0	*	18 MAR	2240	127	5.	35.3	104.0	*	19 MAR	0700	227	0.	35.3	104.0
18 MAR	1425	28	0.	.5	100.0	*	18 MAR	2245	128	5.	35.3	104.0	*	19 MAR	0705	228	0.	35.3	104.0
18 MAR	1430	29	0.	.5	100.1	*	18 MAR	2250	129	4.	35.3	104.0	*	19 MAR	0710	229	0.	35.3	104.0
18 MAR	1435	30	0.	.6	100.1	*	18 MAR	2255	130	4.	35.3	104.0	*	19 MAR	0715	230	0.	35.3	104.0
18 MAR	1440	31	0.	.7	100.1	*	18 MAR	2300	131	3.	35.3	104.0	*	19 MAR	0720	231	0.	35.3	104.0
18 MAR	1445	32	0.	.7	100.1	*	18 MAR	2305	132	3.	35.3	104.0	*	19 MAR	0725	232	0.	35.3	104.0
18 MAR	1450	33	0.	.8	100.1	*	18 MAR	2310	133	2.	35.3	104.0	*	19 MAR	0730	233	0.	35.3	104.0
18 MAR	1455	34	0.	.8	100.1	*	18 MAR	2315	134	2.	35.3	104.0	*	19 MAR	0735	234	0.	35.3	104.0
18 MAR	1500	35	0.	.9	100.1	*	18 MAR	2320	135	1.	35.3	104.0	*	19 MAR	0740	235	0.	35.3	104.0
18 MAR	1505	36	0.	.9	100.1	*	18 MAR	2325	136	1.	35.3	104.0	*	19 MAR	0745	236	0.	35.3	104.0
18 MAR	1510	37	0.	1.0	100.1	*	18 MAR	2330	137	1.	35.3	104.0	*	19 MAR	0750	237	0.	35.3	104.0
18 MAR	1515	38	0.	1.1	100.1	*	18 MAR	2335	138	1.	35.3	104.0	*	19 MAR	0755	238	0.	35.3	104.0
18 MAR	1520	39	0.	1.1	100.1	*	18 MAR	2340	139	0.	35.3	104.0	*	19 MAR	0800	239	0.	35.3	104.0
18 MAR	1525	40	0.	1.2	100.1	*	18 MAR	2345	140	0.	35.3	104.0	*	19 MAR	0805	240	0.	35.3	104.0
18 MAR	1530	41	0.	1.3	100.1	*	18 MAR	2350	141	0.	35.3	104.0	*	19 MAR	0810	241	0.	35.3	104.0
18 MAR	1535	42	0.	1.4	100.1	*	18 MAR	2355	142	0.	35.3	104.0	*	19 MAR	0815	242	0.	35.3	104.0
18 MAR	1540	43	0.	1.4	100.1	*	19 MAR	0000	143	0.	35.3	104.0	*	19 MAR	0820	243	0.	35.3	104.0
18 MAR	1545	44	0.	1.5	100.2	*	19 MAR	0005	144	0.	35.3	104.0	*	19 MAR	0825	244	0.	35.3	104.0
18 MAR	1550	45	0.	1.6	100.2	*	19 MAR	0010	145	0.	35.3	104.0	*	19 MAR	0830	245	0.	35.3	104.0
18 MAR	1555	46	0.	1.8	100.2	*	19 MAR	0015	146	0.	35.3	104.0	*	19 MAR	0835	246	0.	35.3	104.0
18 MAR	1600	47	0.	1.9	100.2	*	19 MAR	0020	147	0.	35.3	104.0	*	19 MAR	0840	247	0.	35.3	104.0
8 MAR	1605	48	0.	2.1	100.2	*	19 MAR	0025	148	0.	35.3	104.0	*	19 MAR	0845	248	0.	35.3	104.0
8 MAR	1610	49	0.	2.3	100.2	*	19 MAR	0030	149	0.	35.3	104.0	*	19 MAR	0850	249	0.	35.3	104.0
8 MAR	1615	50	0.	2.6	100.3	*	19 MAR	0035	150	0.	35.3	104.0	*	19 MAR	0855	250	0.	35.3	104.0
8 MAR	1620	51	0.	3.0	100.3	*	19 MAR	0040	151	0.	35.3	104.0	*	19 MAR	0900	251	0.	35.3	104.0
8 MAR	1625	52	0.	3.4	100.3	*	19 MAR	0045	152	0.	35.3	104.0	*	19 MAR	0905	252	0.	35.3	104.0
8 MAR	1630	53	0.	4.0	100.4	*	19 MAR	0050	153	0.	35.3	104.0	*	19 MAR	0910	253	0.	35.3	104.0
8 MAR	1635	54	0.	4.7	100.5	*	19 MAR	0055	154	0.	35.3	104.0	*	19 MAR	0915	254	0.	35.3	104.0
18 MAR	1640	55	0.	5.6	100.6	*	19 MAR	0100	155	0.	35.3	104.0	*	19 MAR	0920	255	0.	35.3	104.0
18 MAR	1645	56	0.	6.7	100.7	*	19 MAR	0105	156	0.	35.3	104.0	*	19 MAR	0925	256	0.	35.3	104.0
18 MAR	1650	57	0.	8.1	100.8	*	19 MAR	0110	157	0.	35.3	104.0	*	19 MAR	0930	257	0.	35.3	104.0
18 MAR	1655	58	0.	9.8	101.0	*	19 MAR	0115	158	0.	35.3	104.0	*	19 MAR	0935	258	0.	35.3	104.0
18 MAR	1700	59	0.	11.7	101.2	*	19 MAR	0120	159	0.	35.3	104.0	*	19 MAR	0940	259	0.	35.3	104.0
18 MAR	1705	60	0.	13.9	101.4	*	19 MAR	0125	160	0.	35.3	104.0	*	19 MAR	0945	260	0.	35.3	104.0
18 MAR	1710	61	0.	16.3	101.6	*	19 MAR	0130	161	0.	35.3	104.0	*	19 MAR	0950	261	0.	35.3	104.0
18 MAR	1715	62	0.	18.9	101.9	*	19 MAR	0135	162	0.	35.3	104.0	*	19 MAR	0955	262	0.	35.3	104.0
18 MAR	1720	63	0.	21.5	102.1	*	19 MAR	0140	163	0.	35.3	104.0	*	19 MAR	1000	263	0.	35.3	104.0
18 MAR	1725	64	0.	24.1	102.4	*	19 MAR	0145	164	0.	35.3	104.0	*	19 MAR	1005	264	0.	35.3	104.0
18 MAR	1730	65	0.	26.8	102.7	*	19 MAR	0150	165	0.	35.3	104.0	*	19 MAR	1010	265	0.	35.3	104.0
18 MAR	1735	66	0.	29.4	102.9	*	19 MAR	0155	166	0.	35.3	104.0	*	19 MAR	1015	266	0.	35.3	104.0
18 MAR	1740	67	0.	31.9	103.4	*	19 MAR	0200	167	0.	35.3	104.0	*	19 MAR	1020	267	0.	35.3	104.0
18 MAR	1745	68	0.	34.4	103.8	*	19 MAR	0205	168	0.	35.3	104.0	*	19 MAR	1025	268	0.	35.3	104.0
18 MAR	1750	69	275.	35.7	104.1	*	19 MAR	0210	169	0.	35.3	104.0	*	19 MAR	1030	269	0.	35.3	104.0

18 MAR 1755	70	334.	35.8	104.1	*	19 MAR 0215	170	0.	35.3	104.0	*	19 MAR 1035	270	0.	35.3	104.0
18 MAR 1800	71	287.	35.7	104.1	*	19 MAR 0220	171	0.	35.3	104.0	*	19 MAR 1040	271	0.	35.3	104.0
18 MAR 1805	72	279.	35.7	104.1	*	19 MAR 0225	172	0.	35.3	104.0	*	19 MAR 1045	272	0.	35.3	104.0
18 MAR 1810	73	258.	35.7	104.1	*	19 MAR 0230	173	0.	35.3	104.0	*	19 MAR 1050	273	0.	35.3	104.0
18 MAR 1815	74	243.	35.7	104.1	*	19 MAR 0235	174	0.	35.3	104.0	*	19 MAR 1055	274	0.	35.3	104.0
18 MAR 1820	75	227.	35.6	104.1	*	19 MAR 0240	175	0.	35.3	104.0	*	19 MAR 1100	275	0.	35.3	104.0
18 MAR 1825	76	212.	35.6	104.1	*	19 MAR 0245	176	0.	35.3	104.0	*	19 MAR 1105	276	0.	35.3	104.0
18 MAR 1830	77	198.	35.6	104.1	*	19 MAR 0250	177	0.	35.3	104.0	*	19 MAR 1110	277	0.	35.3	104.0
18 MAR 1835	78	185.	35.6	104.1	*	19 MAR 0255	178	0.	35.3	104.0	*	19 MAR 1115	278	0.	35.3	104.0
18 MAR 1840	79	173.	35.6	104.1	*	19 MAR 0300	179	0.	35.3	104.0	*	19 MAR 1120	279	0.	35.3	104.0
18 MAR 1845	80	162.	35.5	104.1	*	19 MAR 0305	180	0.	35.3	104.0	*	19 MAR 1125	280	0.	35.3	104.0
18 MAR 1850	81	152.	35.5	104.1	*	19 MAR 0310	181	0.	35.3	104.0	*	19 MAR 1130	281	0.	35.3	104.0
18 MAR 1855	82	142.	35.5	104.0	*	19 MAR 0315	182	0.	35.3	104.0	*	19 MAR 1135	282	0.	35.3	104.0
18 MAR 1900	83	133.	35.5	104.0	*	19 MAR 0320	183	0.	35.3	104.0	*	19 MAR 1140	283	0.	35.3	104.0
18 MAR 1905	84	124.	35.5	104.0	*	19 MAR 0325	184	0.	35.3	104.0	*	19 MAR 1145	284	0.	35.3	104.0
18 MAR 1910	85	116.	35.5	104.0	*	19 MAR 0330	185	0.	35.3	104.0	*	19 MAR 1150	285	0.	35.3	104.0
18 MAR 1915	86	108.	35.5	104.0	*	19 MAR 0335	186	0.	35.3	104.0	*	19 MAR 1155	286	0.	35.3	104.0
18 MAR 1920	87	101.	35.4	104.0	*	19 MAR 0340	187	0.	35.3	104.0	*	19 MAR 1200	287	0.	35.3	104.0
18 MAR 1925	88	94.	35.4	104.0	*	19 MAR 0345	188	0.	35.3	104.0	*	19 MAR 1205	288	0.	35.3	104.0
18 MAR 1930	89	87.	35.4	104.0	*	19 MAR 0350	189	0.	35.3	104.0	*	19 MAR 1210	289	0.	35.3	104.0
18 MAR 1935	90	81.	35.4	104.0	*	19 MAR 0355	190	0.	35.3	104.0	*	19 MAR 1215	290	0.	35.3	104.0
18 MAR 1940	91	76.	35.4	104.0	*	19 MAR 0400	191	0.	35.3	104.0	*	19 MAR 1220	291	0.	35.3	104.0
18 MAR 1945	92	70.	35.4	104.0	*	19 MAR 0405	192	0.	35.3	104.0	*	19 MAR 1225	292	0.	35.3	104.0
18 MAR 1950	93	65.	35.4	104.0	*	19 MAR 0410	193	0.	35.3	104.0	*	19 MAR 1230	293	0.	35.3	104.0
18 MAR 1955	94	61.	35.4	104.0	*	19 MAR 0415	194	0.	35.3	104.0	*	19 MAR 1235	294	0.	35.3	104.0
18 MAR 2000	95	57.	35.4	104.0	*	19 MAR 0420	195	0.	35.3	104.0	*	19 MAR 1240	295	0.	35.3	104.0
18 MAR 2005	96	53.	35.4	104.0	*	19 MAR 0425	196	0.	35.3	104.0	*	19 MAR 1245	296	0.	35.3	104.0
18 MAR 2010	97	49.	35.4	104.0	*	19 MAR 0430	197	0.	35.3	104.0	*	19 MAR 1250	297	0.	35.3	104.0
18 MAR 2015	98	45.	35.4	104.0	*	19 MAR 0435	198	0.	35.3	104.0	*	19 MAR 1255	298	0.	35.3	104.0
18 MAR 2020	99	42.	35.4	104.0	*	19 MAR 0440	199	0.	35.3	104.0	*	19 MAR 1300	299	0.	35.3	104.0
18 MAR 2025	100	39.	35.4	104.0	*	19 MAR 0445	200	0.	35.3	104.0	*	19 MAR 1305	300	0.	35.3	104.0
					*						*					

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)					
		(CFS)				
334.	5.75		70.	17.	17.	17.
		(INCHES)	.939	.940	.940	.940
		(AC-FT)	34.	34.	34.	34.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
(AC-FT)	(HR)				
36.	5.75	35.	29.	28.	28.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
(FEET)	(HR)				
104.11	5.75	104.02	103.33	103.21	103.21

CUMULATIVE AREA = .69 SQ MI

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108 KK    *    ABCD    *
          *            *
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                    COMBINE ROUTED SUB-BASIN D WITH MAINSTREAM

111 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

110 HC          HYDROGRAPH COMBINATION
                      ICOMP          2  NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION ABCD
SUM OF 2 HYDROGRAPHS

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DA MON HRMN	ORD	FLOW	DA MON HRMN	ORD	FLOW	DA MON HRMN	ORD	FLOW	DA MON HRMN	ORD	FLOW
18 MAR 1210	1	0.	18 MAR 1825	76	722.	19 MAR 0040	151	62.	19 MAR 0655	226	6.
18 MAR 1215	2	0.	18 MAR 1830	77	724.	19 MAR 0045	152	60.	19 MAR 0700	227	6.
18 MAR 1220	3	0.	18 MAR 1835	78	739.	19 MAR 0050	153	59.	19 MAR 0705	228	6.
18 MAR 1225	4	0.	18 MAR 1840	79	763.	19 MAR 0055	154	57.	19 MAR 0710	229	6.
18 MAR 1230	5	0.	18 MAR 1845	80	791.	19 MAR 0100	155	56.	19 MAR 0715	230	6.
18 MAR 1235	6	0.	18 MAR 1850	81	817.	19 MAR 0105	156	54.	19 MAR 0720	231	6.
18 MAR 1240	7	0.	18 MAR 1855	82	834.	19 MAR 0110	157	53.	19 MAR 0725	232	5.
18 MAR 1245	8	0.	18 MAR 1900	83	839.	19 MAR 0115	158	51.	19 MAR 0730	233	5.
18 MAR 1250	9	0.	18 MAR 1905	84	834.	19 MAR 0120	159	50.	19 MAR 0735	234	5.
18 MAR 1255	10	0.	18 MAR 1910	85	821.	19 MAR 0125	160	49.	19 MAR 0740	235	5.
18 MAR 1300	11	0.	18 MAR 1915	86	801.	19 MAR 0130	161	47.	19 MAR 0745	236	5.
18 MAR 1305	12	0.	18 MAR 1920	87	776.	19 MAR 0135	162	46.	19 MAR 0750	237	5.
18 MAR 1310	13	0.	18 MAR 1925	88	747.	19 MAR 0140	163	44.	19 MAR 0755	238	5.
18 MAR 1315	14	0.	18 MAR 1930	89	719.	19 MAR 0145	164	43.	19 MAR 0800	239	5.
18 MAR 1320	15	0.	18 MAR 1935	90	690.	19 MAR 0150	165	42.	19 MAR 0805	240	5.
18 MAR 1325	16	0.	18 MAR 1940	91	659.	19 MAR 0155	166	41.	19 MAR 0810	241	5.
18 MAR 1330	17	0.	18 MAR 1945	92	628.	19 MAR 0200	167	40.	19 MAR 0815	242	5.
18 MAR 1335	18	0.	18 MAR 1950	93	597.	19 MAR 0205	168	40.	19 MAR 0820	243	4.
18 MAR 1340	19	0.	18 MAR 1955	94	566.	19 MAR 0210	169	39.	19 MAR 0825	244	4.
18 MAR 1345	20	0.	18 MAR 2000	95	538.	19 MAR 0215	170	38.	19 MAR 0830	245	4.
18 MAR 1350	21	0.	18 MAR 2005	96	512.	19 MAR 0220	171	37.	19 MAR 0835	246	4.
18 MAR 1355	22	0.	18 MAR 2010	97	486.	19 MAR 0225	172	37.	19 MAR 0840	247	4.
18 MAR 1400	23	0.	18 MAR 2015	98	460.	19 MAR 0230	173	36.	19 MAR 0845	248	4.
18 MAR 1405	24	0.	18 MAR 2020	99	434.	19 MAR 0235	174	35.	19 MAR 0850	249	4.
18 MAR 1410	25	0.	18 MAR 2025	100	410.	19 MAR 0240	175	34.	19 MAR 0855	250	4.
18 MAR 1415	26	0.	18 MAR 2030	101	387.	19 MAR 0245	176	33.	19 MAR 0900	251	3.
18 MAR 1420	27	0.	18 MAR 2035	102	368.	19 MAR 0250	177	33.	19 MAR 0905	252	3.
18 MAR 1425	28	1.	18 MAR 2040	103	349.	19 MAR 0255	178	32.	19 MAR 0910	253	3.
18 MAR 1430	29	1.	18 MAR 2045	104	330.	19 MAR 0300	179	31.	19 MAR 0915	254	2.
18 MAR 1435	30	1.	18 MAR 2050	105	312.	19 MAR 0305	180	30.	19 MAR 0920	255	2.

18 MAR 1440	31	1.	*	18 MAR 2055	106	295.	*	19 MAR 0310	181	30.	*	19 MAR 0925	256	2.
18 MAR 1445	32	1.	*	18 MAR 2100	107	279.	*	19 MAR 0315	182	29.	*	19 MAR 0930	257	2.
18 MAR 1450	33	1.	*	18 MAR 2105	108	264.	*	19 MAR 0320	183	28.	*	19 MAR 0935	258	2.
18 MAR 1455	34	1.	*	18 MAR 2110	109	251.	*	19 MAR 0325	184	27.	*	19 MAR 0940	259	1.
18 MAR 1500	35	1.	*	18 MAR 2115	110	239.	*	19 MAR 0330	185	26.	*	19 MAR 0945	260	1.
18 MAR 1505	36	2.	*	18 MAR 2120	111	227.	*	19 MAR 0335	186	26.	*	19 MAR 0950	261	1.
18 MAR 1510	37	2.	*	18 MAR 2125	112	216.	*	19 MAR 0340	187	25.	*	19 MAR 0955	262	1.
18 MAR 1515	38	2.	*	18 MAR 2130	113	205.	*	19 MAR 0345	188	24.	*	19 MAR 1000	263	1.
18 MAR 1520	39	2.	*	18 MAR 2135	114	195.	*	19 MAR 0350	189	23.	*	19 MAR 1005	264	1.
18 MAR 1525	40	2.	*	18 MAR 2140	115	185.	*	19 MAR 0355	190	22.	*	19 MAR 1010	265	1.
18 MAR 1530	41	2.	*	18 MAR 2145	116	176.	*	19 MAR 0400	191	22.	*	19 MAR 1015	266	1.
18 MAR 1535	42	2.	*	18 MAR 2150	117	168.	*	19 MAR 0405	192	21.	*	19 MAR 1020	267	1.
18 MAR 1540	43	2.	*	18 MAR 2155	118	161.	*	19 MAR 0410	193	20.	*	19 MAR 1025	268	1.
18 MAR 1545	44	2.	*	18 MAR 2200	119	154.	*	19 MAR 0415	194	19.	*	19 MAR 1030	269	1.
18 MAR 1550	45	3.	*	18 MAR 2205	120	148.	*	19 MAR 0420	195	19.	*	19 MAR 1035	270	1.
18 MAR 1555	46	3.	*	18 MAR 2210	121	142.	*	19 MAR 0425	196	18.	*	19 MAR 1040	271	1.
18 MAR 1600	47	3.	*	18 MAR 2215	122	136.	*	19 MAR 0430	197	17.	*	19 MAR 1045	272	1.
18 MAR 1605	48	3.	*	18 MAR 2220	123	131.	*	19 MAR 0435	198	17.	*	19 MAR 1050	273	1.
18 MAR 1610	49	4.	*	18 MAR 2225	124	126.	*	19 MAR 0440	199	17.	*	19 MAR 1055	274	1.
18 MAR 1615	50	4.	*	18 MAR 2230	125	122.	*	19 MAR 0445	200	16.	*	19 MAR 1100	275	1.
18 MAR 1620	51	7.	*	18 MAR 2235	126	118.	*	19 MAR 0450	201	16.	*	19 MAR 1105	276	1.
18 MAR 1625	52	15.	*	18 MAR 2240	127	114.	*	19 MAR 0455	202	15.	*	19 MAR 1110	277	0.
18 MAR 1630	53	31.	*	18 MAR 2245	128	111.	*	19 MAR 0500	203	15.	*	19 MAR 1115	278	0.
18 MAR 1635	54	64.	*	18 MAR 2250	129	107.	*	19 MAR 0505	204	15.	*	19 MAR 1120	279	0.
18 MAR 1640	55	118.	*	18 MAR 2255	130	104.	*	19 MAR 0510	205	14.	*	19 MAR 1125	280	0.
18 MAR 1645	56	188.	*	18 MAR 2300	131	101.	*	19 MAR 0515	206	14.	*	19 MAR 1130	281	0.
18 MAR 1650	57	270.	*	18 MAR 2305	132	98.	*	19 MAR 0520	207	13.	*	19 MAR 1135	282	0.
18 MAR 1655	58	359.	*	18 MAR 2310	133	95.	*	19 MAR 0525	208	13.	*	19 MAR 1140	283	0.
18 MAR 1700	59	453.	*	18 MAR 2315	134	93.	*	19 MAR 0530	209	12.	*	19 MAR 1145	284	0.
18 MAR 1705	60	539.	*	18 MAR 2320	135	90.	*	19 MAR 0535	210	12.	*	19 MAR 1150	285	0.
18 MAR 1710	61	614.	*	18 MAR 2325	136	88.	*	19 MAR 0540	211	12.	*	19 MAR 1155	286	0.
18 MAR 1715	62	677.	*	18 MAR 2330	137	86.	*	19 MAR 0545	212	11.	*	19 MAR 1200	287	0.
18 MAR 1720	63	722.	*	18 MAR 2335	138	84.	*	19 MAR 0550	213	11.	*	19 MAR 1205	288	0.
18 MAR 1725	64	747.	*	18 MAR 2340	139	82.	*	19 MAR 0555	214	10.	*	19 MAR 1210	289	0.
18 MAR 1730	65	753.	*	18 MAR 2345	140	80.	*	19 MAR 0600	215	10.	*	19 MAR 1215	290	0.
18 MAR 1735	66	744.	*	18 MAR 2350	141	78.	*	19 MAR 0605	216	10.	*	19 MAR 1220	291	0.
18 MAR 1740	67	723.	*	18 MAR 2355	142	76.	*	19 MAR 0610	217	9.	*	19 MAR 1225	292	0.
18 MAR 1745	68	694.	*	19 MAR 0000	143	74.	*	19 MAR 0615	218	9.	*	19 MAR 1230	293	0.
18 MAR 1750	69	936.	*	19 MAR 0005	144	73.	*	19 MAR 0620	219	9.	*	19 MAR 1235	294	0.
18 MAR 1755	70	962.	*	19 MAR 0010	145	71.	*	19 MAR 0625	220	8.	*	19 MAR 1240	295	0.
18 MAR 1800	71	883.	*	19 MAR 0015	146	69.	*	19 MAR 0630	221	8.	*	19 MAR 1245	296	0.
18 MAR 1805	72	845.	*	19 MAR 0020	147	68.	*	19 MAR 0635	222	8.	*	19 MAR 1250	297	0.
18 MAR 1810	73	797.	*	19 MAR 0025	148	66.	*	19 MAR 0640	223	7.	*	19 MAR 1255	298	0.
18 MAR 1815	74	762.	*	19 MAR 0030	149	65.	*	19 MAR 0645	224	7.	*	19 MAR 1300	299	0.
18 MAR 1820	75	735.	*	19 MAR 0035	150	63.	*	19 MAR 0650	225	7.	*	19 MAR 1305	300	0.
			*				*				*			

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PEAL FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
962.	5.75		501.	141.	135.	135.
		(INCHES)	.061	.069	.069	.069
		(AC-FT)	249.	279.	279.	279.

CUMULATIVE AREA = 75.98 SQ MI

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          *            *
112 KK    *     RTEAB  *     CD2F
          *            *
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                        ROUTE COMBINED HYDROGRAPH TO SUB BASIN F

118 KO          OUTPUT CONTROL VARIABLES
                      IPRNT           2  PRINT CONTROL
                      IPLOT           0  PLOT CONTROL
                      QSCAL          0.  HYDROGRAPH PLOT SCALE

              HYDROGRAPH ROUTING DATA

114 RS          STORAGE ROUTING
                      NSTPS           1  NUMBER OF SUBREACHES
                       ITYP        FLOW  TYPE OF INITIAL CONDITION
                     RSVRIC         .00  INITIAL CONDITION
                          X         .00 WORKING R AND D COEFFICIENT

115 RC          NORMAL DEPTH CHANNEL
                        ANL        .025  LEFT OVERBANK N-VALUE
                       ANCH        .015  MAIN CHANNEL N-VALUE
                        ANR        .025  RIGHT OVERBANK N-VALUE
                      RLNTH        850.  REACH LENGTH
                        SEL       .0010  ENERGY SLOPE
                      ELMAX       105.0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                        CROSS-SECTION DATA
                          --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
 17 RY        ELEVATION    105.00    101.00    100.00    102.00    101.00    101.88    101.00    105.00
 16 RX        DISTANCE      50.00    150.00    152.00    156.00    158.00    202.00    246.00    250.00

                                                   ***

                                        COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

          STORAGE        .00       .00       .01       .02       .05       .19       .51      1.00      1.62      2.28
          OUTFLOW        .00       .08       .53      1.56      2.41      8.72     30.16     73.17    153.26    261.61
        ELEVATION     100.00    100.26    100.53    100.79    101.05    101.32    101.58    101.84    102.11    102.37

          STORAGE       2.98      3.70      4.47      5.27      6.10      6.97      7.87      8.81      9.79     10.80
          OUTFLOW     394.50    551.13    731.04    934.00   1159.91   1408.75   1680.58   1975.51   2293.68   2635.29
        ELEVATION     102.63    102.89    103.16    103.42    103.68    103.95    104.21    104.47    104.74    105.00


*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN     1409. TO     2635.
                THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
                THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

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HYDROGRAPH AT STATION RTEAB

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
18	MAR	1210	1	0.	.0	100.0	18	MAR	2030	101	403.	3.0	102.6	19	MAR	0450	201	17.	.3	101.4
18	MAR	1215	2	0.	.0	100.0	18	MAR	2035	102	382.	2.9	102.6	19	MAR	0455	202	16.	.3	101.4
18	MAR	1220	3	0.	.0	100.0	18	MAR	2040	103	363.	2.8	102.6	19	MAR	0500	203	16.	.3	101.4
18	MAR	1225	4	0.	.0	100.0	18	MAR	2045	104	344.	2.7	102.5	19	MAR	0505	204	15.	.3	101.4
18	MAR	1230	5	0.	.0	100.0	18	MAR	2050	105	326.	2.6	102.5	19	MAR	0510	205	15.	.3	101.4
18	MAR	1235	6	0.	.0	100.0	18	MAR	2055	106	308.	2.5	102.5	19	MAR	0515	206	15.	.3	101.4
18	MAR	1240	7	0.	.0	100.0	18	MAR	2100	107	291.	2.4	102.4	19	MAR	0520	207	14.	.3	101.4
18	MAR	1245	8	0.	.0	100.0	18	MAR	2105	108	276.	2.4	102.4	19	MAR	0525	208	14.	.3	101.4
18	MAR	1250	9	0.	.0	100.0	18	MAR	2110	109	262.	2.3	102.4	19	MAR	0530	209	13.	.3	101.4
18	MAR	1255	10	0.	.0	100.0	18	MAR	2115	110	250.	2.2	102.3	19	MAR	0535	210	13.	.3	101.4
18	MAR	1300	11	0.	.0	100.0	18	MAR	2120	111	237.	2.1	102.3	19	MAR	0540	211	13.	.2	101.4
18	MAR	1305	12	0.	.0	100.0	18	MAR	2125	112	226.	2.1	102.3	19	MAR	0545	212	12.	.2	101.4
18	MAR	1310	13	0.	.0	100.0	18	MAR	2130	113	214.	2.0	102.3	19	MAR	0550	213	12.	.2	101.4
18	MAR	1315	14	0.	.0	100.0	18	MAR	2135	114	204.	1.9	102.2	19	MAR	0555	214	11.	.2	101.3
18	MAR	1320	15	0.	.0	100.0	18	MAR	2140	115	194.	1.9	102.2	19	MAR	0600	215	11.	.2	101.3
18	MAR	1325	16	0.	.0	100.0	18	MAR	2145	116	184.	1.8	102.2	19	MAR	0605	216	11.	.2	101.3
18	MAR	1330	17	0.	.0	100.0	18	MAR	2150	117	175.	1.8	102.2	19	MAR	0610	217	10.	.2	101.3
18	MAR	1335	18	0.	.0	100.0	18	MAR	2155	118	167.	1.7	102.1	19	MAR	0615	218	10.	.2	101.3
18	MAR	1340	19	0.	.0	100.0	18	MAR	2200	119	160.	1.7	102.1	19	MAR	0620	219	9.	.2	101.3
18	MAR	1345	20	0.	.0	100.0	18	MAR	2205	120	153.	1.6	102.1	19	MAR	0625	220	9.	.2	101.3
18	MAR	1350	21	0.	.0	100.0	18	MAR	2210	121	148.	1.6	102.1	19	MAR	0630	221	9.	.2	101.3
18	MAR	1355	22	0.	.0	100.1	18	MAR	2215	122	142.	1.5	102.1	19	MAR	0635	222	8.	.2	101.3
18	MAR	1400	23	0.	.0	100.1	18	MAR	2220	123	137.	1.5	102.1	19	MAR	0640	223	8.	.2	101.3
18	MAR	1405	24	0.	.0	100.2	18	MAR	2225	124	132.	1.5	102.0	19	MAR	0645	224	8.	.2	101.3
18	MAR	1410	25	0.	.0	100.3	18	MAR	2230	125	127.	1.4	102.0	19	MAR	0650	225	8.	.2	101.3
18	MAR	1415	26	0.	.0	100.3	18	MAR	2235	126	122.	1.4	102.0	19	MAR	0655	226	7.	.2	101.3
18	MAR	1420	27	0.	.0	100.4	18	MAR	2240	127	118.	1.4	102.0	19	MAR	0700	227	7.	.2	101.2
18	MAR	1425	28	0.	.0	100.4	18	MAR	2245	128	115.	1.3	102.0	19	MAR	0705	228	7.	.1	101.2
18	MAR	1430	29	0.	.0	100.5	18	MAR	2250	129	111.	1.3	102.0	19	MAR	0710	229	7.	.1	101.2
18	MAR	1435	30	1.	.0	100.5	18	MAR	2255	130	108.	1.3	102.0	19	MAR	0715	230	6.	.1	101.2
18	MAR	1440	31	1.	.0	100.6	18	MAR	2300	131	105.	1.2	101.9	19	MAR	0720	231	6.	.1	101.2
18	MAR	1445	32	1.	.0	100.6	18	MAR	2305	132	102.	1.2	101.9	19	MAR	0725	232	6.	.1	101.2
18	MAR	1450	33	1.	.0	100.6	18	MAR	2310	133	99.	1.2	101.9	19	MAR	0730	233	6.	.1	101.2
18	MAR	1455	34	1.	.0	100.7	18	MAR	2315	134	96.	1.2	101.9	19	MAR	0735	234	6.	.1	101.2
18	MAR	1500	35	1.	.0	100.7	18	MAR	2320	135	93.	1.2	101.9	19	MAR	0740	235	6.	.1	101.2
18	MAR	1505	36	1.	.0	100.7	18	MAR	2325	136	90.	1.1	101.9	19	MAR	0745	236	5.	.1	101.2
18	MAR	1510	37	1.	.0	100.8	18	MAR	2330	137	88.	1.1	101.9	19	MAR	0750	237	5.	.1	101.2
18	MAR	1515	38	2.	.0	100.8	18	MAR	2335	138	86.	1.1	101.9	19	MAR	0755	238	5.	.1	101.2
18	MAR	1520	39	2.	.0	100.8	18	MAR	2340	139	84.	1.1	101.9	19	MAR	0800	239	5.	.1	101.2
18	MAR	1525	40	2.	.0	100.8	18	MAR	2345	140	82.	1.1	101.9	19	MAR	0805	240	5.	.1	101.2
18	MAR	1530	41	2.	.0	100.9	18	MAR	2350	141	80.	1.1	101.9	19	MAR	0810	241	5.	.1	101.2
18	MAR	1535	42	2.	.0	100.9	18	MAR	2355	142	78.	1.0	101.9	19	MAR	0815	242	5.	.1	101.2
18	MAR	1540	43	2.	.0	100.9	19	MAR	0000	143	77.	1.0	101.9	19	MAR	0820	243	5.	.1	101.2
18	MAR	1545	44	2.	.0	100.9	19	MAR	0005	144	75.	1.0	101.8	19	MAR	0825	244	5.	.1	101.1
18	MAR	1550	45	2.	.0	101.0	19	MAR	0010	145	73.	1.0	101.8	19	MAR	0830	245	5.	.1	101.1
18	MAR	1555	46	2.	.0	101.0	19	MAR	0015	146	72.	1.0	101.8	19	MAR	0835	246	4.	.1	101.1
18	MAR	1600	47	2.	.0	101.0	19	MAR	0020	147	70.	1.0	101.8	19	MAR	0840	247	4.	.1	101.1
18	MAR	1605	48	3.	.1	101.1	19	MAR	0025	148	69.	1.0	101.8	19	MAR	0845	248	4.	.1	101.1
18	MAR	1610	49	3.	.1	101.1	19	MAR	0030	149	67.	.9	101.8	19	MAR	0850	249	4.	.1	101.1
18	MAR	1615	50	3.	.1	101.1	19	MAR	0035	150	66.	.9	101.8	19	MAR	0855	250	4.	.1	101.1
18	MAR	1620	51	4.	.1	101.1	19	MAR	0040	151	64.	.9	101.8	19	MAR	0900	251	4.	.1	101.1
18	MAR	1625	52	6.	.1	101.2	19	MAR	0045	152	63.	.9	101.8	19	MAR	0905	252	4.	.1	101.1

18 MAR	1630	53	11.	.2	101.3 *	19 MAR	0050	153	61.	.9	101.8 *	19 MAR	0910	253	3.	.1	101.1
18 MAR	1635	54	25.	.4	101.5 *	19 MAR	0055	154	60.	.8	101.8 *	19 MAR	0915	254	3.	.1	101.1
18 MAR	1640	55	54.	.8	101.7 *	19 MAR	0100	155	58.	.8	101.8 *	19 MAR	0920	255	3.	.1	101.1
18 MAR	1645	56	108.	1.3	102.0 *	19 MAR	0105	156	57.	.8	101.7 *	19 MAR	0925	256	3.	.1	101.1
18 MAR	1650	57	188.	1.8	102.2 *	19 MAR	0110	157	55.	.8	101.7 *	19 MAR	0930	257	3.	.0	101.1
18 MAR	1655	58	282.	2.4	102.4 *	19 MAR	0115	158	54.	.8	101.7 *	19 MAR	0935	258	2.	.0	101.0
18 MAR	1700	59	381.	2.9	102.6 *	19 MAR	0120	159	52.	.8	101.7 *	19 MAR	0940	259	2.	.0	101.0
18 MAR	1705	60	478.	3.4	102.8 *	19 MAR	0125	160	51.	.7	101.7 *	19 MAR	0945	260	2.	.0	100.9
18 MAR	1710	61	562.	3.8	102.9 *	19 MAR	0130	161	49.	.7	101.7 *	19 MAR	0950	261	2.	.0	100.9
18 MAR	1715	62	637.	4.1	103.0 *	19 MAR	0135	162	48.	.7	101.7 *	19 MAR	0955	262	2.	.0	100.8
18 MAR	1720	63	693.	4.3	103.1 *	19 MAR	0140	163	47.	.7	101.7 *	19 MAR	1000	263	2.	.0	100.8
18 MAR	1725	64	730.	4.5	103.2 *	19 MAR	0145	164	45.	.7	101.7 *	19 MAR	1005	264	1.	.0	100.7
18 MAR	1730	65	748.	4.5	103.2 *	19 MAR	0150	165	44.	.7	101.7 *	19 MAR	1010	265	1.	.0	100.7
18 MAR	1735	66	748.	4.5	103.2 *	19 MAR	0155	166	43.	.7	101.7 *	19 MAR	1015	266	1.	.0	100.7
18 MAR	1740	67	734.	4.5	103.2 *	19 MAR	0200	167	42.	.6	101.7 *	19 MAR	1020	267	1.	.0	100.6
18 MAR	1745	68	711.	4.4	103.1 *	19 MAR	0205	168	41.	.6	101.6 *	19 MAR	1025	268	1.	.0	100.6
18 MAR	1750	69	807.	4.8	103.3 *	19 MAR	0210	169	40.	.6	101.6 *	19 MAR	1030	269	1.	.0	100.6
18 MAR	1755	70	940.	5.3	103.4 *	19 MAR	0215	170	39.	.6	101.6 *	19 MAR	1035	270	1.	.0	100.6
18 MAR	1800	71	924.	5.2	103.4 *	19 MAR	0220	171	39.	.6	101.6 *	19 MAR	1040	271	1.	.0	100.6
18 MAR	1805	72	868.	5.0	103.3 *	19 MAR	0225	172	38.	.6	101.6 *	19 MAR	1045	272	1.	.0	100.6
18 MAR	1810	73	825.	4.8	103.3 *	19 MAR	0230	173	37.	.6	101.6 *	19 MAR	1050	273	1.	.0	100.5
18 MAR	1815	74	783.	4.7	103.2 *	19 MAR	0235	174	36.	.6	101.6 *	19 MAR	1055	274	1.	.0	100.5
18 MAR	1820	75	751.	4.5	103.2 *	19 MAR	0240	175	36.	.6	101.6 *	19 MAR	1100	275	1.	.0	100.5
18 MAR	1825	76	730.	4.5	103.2 *	19 MAR	0245	176	35.	.6	101.6 *	19 MAR	1105	276	1.	.0	100.5
18 MAR	1830	77	724.	4.4	103.1 *	19 MAR	0250	177	34.	.6	101.6 *	19 MAR	1110	277	1.	.0	100.5
18 MAR	1835	78	731.	4.5	103.2 *	19 MAR	0255	178	33.	.5	101.6 *	19 MAR	1115	278	1.	.0	100.5
18 MAR	1840	79	750.	4.5	103.2 *	19 MAR	0300	179	32.	.5	101.6 *	19 MAR	1120	279	1.	.0	100.5
18 MAR	1845	80	775.	4.6	103.2 *	19 MAR	0305	180	32.	.5	101.6 *	19 MAR	1125	280	0.	.0	100.5
18 MAR	1850	81	802.	4.7	103.2 *	19 MAR	0310	181	31.	.5	101.6 *	19 MAR	1130	281	0.	.0	100.5
18 MAR	1855	82	824.	4.8	103.3 *	19 MAR	0315	182	30.	.5	101.6 *	19 MAR	1135	282	0.	.0	100.5
18 MAR	1900	83	835.	4.9	103.3 *	19 MAR	0320	183	30.	.5	101.6 *	19 MAR	1140	283	0.	.0	100.5
18 MAR	1905	84	836.	4.9	103.3 *	19 MAR	0325	184	29.	.5	101.6 *	19 MAR	1145	284	0.	.0	100.5
18 MAR	1910	85	828.	4.8	103.3 *	19 MAR	0330	185	28.	.5	101.6 *	19 MAR	1150	285	0.	.0	100.5
18 MAR	1915	86	812.	4.8	103.3 *	19 MAR	0335	186	27.	.5	101.5 *	19 MAR	1155	286	0.	.0	100.5
18 MAR	1920	87	790.	4.7	103.2 *	19 MAR	0340	187	27.	.5	101.5 *	19 MAR	1200	287	0.	.0	100.5
18 MAR	1925	88	763.	4.6	103.2 *	19 MAR	0345	188	26.	.4	101.5 *	19 MAR	1205	288	0.	.0	100.5
3 MAR	1930	89	735.	4.5	103.2 *	19 MAR	0350	189	25.	.4	101.5 *	19 MAR	1210	289	0.	.0	100.5
3 MAR	1935	90	707.	4.4	103.1 *	19 MAR	0355	190	24.	.4	101.5 *	19 MAR	1215	290	0.	.0	100.5
3 MAR	1940	91	678.	4.2	103.1 *	19 MAR	0400	191	23.	.4	101.5 *	19 MAR	1220	291	0.	.0	100.5
3 MAR	1945	92	647.	4.1	103.0 *	19 MAR	0405	192	23.	.4	101.5 *	19 MAR	1225	292	0.	.0	100.5
3 MAR	1950	93	616.	4.0	103.0 *	19 MAR	0410	193	22.	.4	101.5 *	19 MAR	1230	293	0.	.0	100.5
3 MAR	1955	94	585.	3.8	102.9 *	19 MAR	0415	194	21.	.4	101.5 *	19 MAR	1235	294	0.	.0	100.5
3 MAR	2000	95	555.	3.7	102.9 *	19 MAR	0420	195	20.	.4	101.5 *	19 MAR	1240	295	0.	.0	100.5
18 MAR	2005	96	529.	3.6	102.9 *	19 MAR	0425	196	19.	.4	101.4 *	19 MAR	1245	296	0.	.0	100.5
18 MAR	2010	97	503.	3.5	102.8 *	19 MAR	0430	197	19.	.3	101.4 *	19 MAR	1250	297	0.	.0	100.5
18 MAR	2015	98	477.	3.4	102.8 *	19 MAR	0435	198	18.	.3	101.4 *	19 MAR	1255	298	0.	.0	100.5
18 MAR	2020	99	451.	3.2	102.7 *	19 MAR	0440	199	18.	.3	101.4 *	19 MAR	1300	299	0.	.0	100.5
18 MAR	2025	100	426.	3.1	102.7 *	19 MAR	0445	200	17.	.3	101.4 *	19 MAR	1305	300	0.	.0	100.5
					*						*						

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
940.	5.75		501.	141.	135.	135.
		(INCHES)	.061	.069	.069	.069
		(AC-FT)	248.	279.	279.	279.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
5.	5.75	3.	1.	1.	1.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
103.43	5.75	102.75	101.54	101.48	101.48

CUMULATIVE AREA = 75.98 SQ MI

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          *            *
119 KK    *     E      *
          *            *
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SUB-BASIN E
6-HOUR RAINFALL, PATTERN NO. 2.10 WAS USED TO FIND TC & R FOR THIS BASIN
THIS BASIN USED RAINFALL REDUCTION FACTOR OF .971
L = 1.32 Kb = .045 Adj. Slope = 6.9

129 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE

SUBBASIN RUNOFF DATA

124 BA SUBBASIN CHARACTERISTICS

TAREA	.57	SUBBASIN AREA

PRECIPITATION DATA

18 PB

STORM	2.91	BASIN TOTAL PRECIPITATION

18 PI INCREMENTAL PRECIPITATION PATTERN

.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.01	.01	.01	.01	.01	.01	.03
.03	.03	.06	.06	.06	.08	.08	.08	.05	.05
.05	.02	.02	.02	.01	.01	.01	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00								

125 LG GREEN AND AMPT LOSS RATE

STRTL	.30	STARTING LOSS
DTH	.21	MOISTURE DEFICIT
PSIF	6.40	WETTING FRONT SUCTION
XKSAT	.13	HYDRAULIC CONDUCTIVITY

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                RTIMP       20.00  PERCENT IMPERVIOUS AREA

126 UC        CLARK UNITGRAPH
                  TC        1.38  TIME OF CONCENTRATION
                   R         .90  STORAGE COEFFICIENT

127 UA        ACCUMULATED-AREA VS. TIME,  11 ORDINATES
                  .0       5.0      16.0      30.0      65.0      77.0      84.0      90.0      94.0      97.0
               100.0

                                                  ***

                                          UNIT HYDROGRAPH PARAMETERS
                                   CLARK   TC=  1.38 HR,       R=   .90 HR
                                  SNYDER   TP=   .73 HR,      CP=   .46

                                          UNIT HYDROGRAPH
                                     65 END-OF-PERIOD ORDINATES
          6.      20.      39.      65.      92.     143.     203.     230.     233.     231.
        226.     219.     210.     200.     190.     180.     170.     157.     143.     130.
        119.     108.      99.      90.      82.      75.      68.      62.      57.      52.
         47.      43.      39.      36.      33.      30.      27.      25.      22.      20.
         19.      17.      16.      14.      13.      12.      11.      10.       9.       8.
          7.       7.       6.       6.       5.       5.       4.       4.       4.       3.
          3.       3.       2.       2.       2.
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HYDROGRAPH AT STATION E

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DA MON HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA MON HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
						*						
18 MAR 1210	1	.00	.00	.00	0.	*	19 MAR 0040	151	.00	.00	.00	0.
18 MAR 1215	2	.01	.01	.00	0.	*	19 MAR 0045	152	.00	.00	.00	0.
18 MAR 1220	3	.01	.01	.00	0.	*	19 MAR 0050	153	.00	.00	.00	0.
18 MAR 1225	4	.01	.01	.00	0.	*	19 MAR 0055	154	.00	.00	.00	0.
18 MAR 1230	5	.01	.01	.00	0.	*	19 MAR 0100	155	.00	.00	.00	0.
18 MAR 1235	6	.01	.01	.00	0.	*	19 MAR 0105	156	.00	.00	.00	0.
18 MAR 1240	7	.01	.01	.00	1.	*	19 MAR 0110	157	.00	.00	.00	0.
18 MAR 1245	8	.01	.01	.00	1.	*	19 MAR 0115	158	.00	.00	.00	0.
18 MAR 1250	9	.01	.01	.00	1.	*	19 MAR 0120	159	.00	.00	.00	0.
18 MAR 1255	10	.01	.01	.00	2.	*	19 MAR 0125	160	.00	.00	.00	0.
18 MAR 1300	11	.01	.01	.00	2.	*	19 MAR 0130	161	.00	.00	.00	0.
18 MAR 1305	12	.01	.01	.00	3.	*	19 MAR 0135	162	.00	.00	.00	0.
18 MAR 1310	13	.01	.01	.00	3.	*	19 MAR 0140	163	.00	.00	.00	0.
18 MAR 1315	14	.01	.01	.00	3.	*	19 MAR 0145	164	.00	.00	.00	0.
18 MAR 1320	15	.01	.01	.00	4.	*	19 MAR 0150	165	.00	.00	.00	0.
18 MAR 1325	16	.01	.01	.00	4.	*	19 MAR 0155	166	.00	.00	.00	0.
18 MAR 1330	17	.01	.01	.00	4.	*	19 MAR 0200	167	.00	.00	.00	0.
18 MAR 1335	18	.01	.01	.00	5.	*	19 MAR 0205	168	.00	.00	.00	0.
18 MAR 1340	19	.01	.01	.00	5.	*	19 MAR 0210	169	.00	.00	.00	0.
18 MAR 1345	20	.01	.01	.00	5.	*	19 MAR 0215	170	.00	.00	.00	0.
18 MAR 1350	21	.01	.01	.00	5.	*	19 MAR 0220	171	.00	.00	.00	0.
18 MAR 1355	22	.01	.01	.00	6.	*	19 MAR 0225	172	.00	.00	.00	0.
18 MAR 1400	23	.01	.01	.00	6.	*	19 MAR 0230	173	.00	.00	.00	0.
18 MAR 1405	24	.01	.01	.00	6.	*	19 MAR 0235	174	.00	.00	.00	0.

18 MAR 1410	25	.01	.01	.00	6.	*	19 MAR 0240	175	.00	.00	.00	0.
18 MAR 1415	26	.01	.01	.00	6.	*	19 MAR 0245	176	.00	.00	.00	0.
18 MAR 1420	27	.01	.01	.00	6.	*	19 MAR 0250	177	.00	.00	.00	0.
18 MAR 1425	28	.01	.01	.00	7.	*	19 MAR 0255	178	.00	.00	.00	0.
18 MAR 1430	29	.01	.01	.00	7.	*	19 MAR 0300	179	.00	.00	.00	0.
18 MAR 1435	30	.01	.01	.00	7.	*	19 MAR 0305	180	.00	.00	.00	0.
18 MAR 1440	31	.01	.01	.00	7.	*	19 MAR 0310	181	.00	.00	.00	0.
18 MAR 1445	32	.01	.01	.00	7.	*	19 MAR 0315	182	.00	.00	.00	0.
18 MAR 1450	33	.01	.01	.00	7.	*	19 MAR 0320	183	.00	.00	.00	0.
18 MAR 1455	34	.01	.01	.00	7.	*	19 MAR 0325	184	.00	.00	.00	0.
18 MAR 1500	35	.02	.02	.00	7.	*	19 MAR 0330	185	.00	.00	.00	0.
18 MAR 1505	36	.02	.02	.00	8.	*	19 MAR 0335	186	.00	.00	.00	0.
18 MAR 1510	37	.02	.02	.00	8.	*	19 MAR 0340	187	.00	.00	.00	0.
18 MAR 1515	38	.04	.03	.01	8.	*	19 MAR 0345	188	.00	.00	.00	0.
18 MAR 1520	39	.04	.03	.01	9.	*	19 MAR 0350	189	.00	.00	.00	0.
18 MAR 1525	40	.04	.03	.01	9.	*	19 MAR 0355	190	.00	.00	.00	0.
18 MAR 1530	41	.09	.06	.03	10.	*	19 MAR 0400	191	.00	.00	.00	0.
18 MAR 1535	42	.09	.05	.04	12.	*	19 MAR 0405	192	.00	.00	.00	0.
18 MAR 1540	43	.09	.04	.04	14.	*	19 MAR 0410	193	.00	.00	.00	0.
18 MAR 1545	44	.19	.04	.15	18.	*	19 MAR 0415	194	.00	.00	.00	0.
18 MAR 1550	45	.19	.03	.15	24.	*	19 MAR 0420	195	.00	.00	.00	0.
18 MAR 1555	46	.19	.03	.16	34.	*	19 MAR 0425	196	.00	.00	.00	0.
18 MAR 1600	47	.23	.03	.20	49.	*	19 MAR 0430	197	.00	.00	.00	0.
18 MAR 1605	48	.23	.03	.20	69.	*	19 MAR 0435	198	.00	.00	.00	0.
18 MAR 1610	49	.23	.03	.20	96.	*	19 MAR 0440	199	.00	.00	.00	0.
18 MAR 1615	50	.14	.03	.11	130.	*	19 MAR 0445	200	.00	.00	.00	0.
18 MAR 1620	51	.14	.03	.11	167.	*	19 MAR 0450	201	.00	.00	.00	0.
18 MAR 1625	52	.14	.03	.11	205.	*	19 MAR 0455	202	.00	.00	.00	0.
18 MAR 1630	53	.06	.02	.04	243.	*	19 MAR 0500	203	.00	.00	.00	0.
18 MAR 1635	54	.06	.02	.04	277.	*	19 MAR 0505	204	.00	.00	.00	0.
18 MAR 1640	55	.06	.02	.04	304.	*	19 MAR 0510	205	.00	.00	.00	0.
18 MAR 1645	56	.04	.02	.02	322.	*	19 MAR 0515	206	.00	.00	.00	0.
18 MAR 1650	57	.04	.02	.02	334.	*	19 MAR 0520	207	.00	.00	.00	0.
18 MAR 1655	58	.04	.02	.02	340.	*	19 MAR 0525	208	.00	.00	.00	0.
18 MAR 1700	59	.01	.01	.00	338.	*	19 MAR 0530	209	.00	.00	.00	0.
18 MAR 1705	60	.01	.01	.00	333.	*	19 MAR 0535	210	.00	.00	.00	0.
18 MAR 1710	61	.01	.01	.00	323.	*	19 MAR 0540	211	.00	.00	.00	0.
18 MAR 1715	62	.01	.01	.00	311.	*	19 MAR 0545	212	.00	.00	.00	0.
18 MAR 1720	63	.01	.01	.00	296.	*	19 MAR 0550	213	.00	.00	.00	0.
18 MAR 1725	64	.01	.01	.00	280.	*	19 MAR 0555	214	.00	.00	.00	0.
18 MAR 1730	65	.01	.01	.00	263.	*	19 MAR 0600	215	.00	.00	.00	0.
18 MAR 1735	66	.01	.01	.00	245.	*	19 MAR 0605	216	.00	.00	.00	0.
18 MAR 1740	67	.01	.01	.00	228.	*	19 MAR 0610	217	.00	.00	.00	0.
18 MAR 1745	68	.01	.01	.00	211.	*	19 MAR 0615	218	.00	.00	.00	0.
18 MAR 1750	69	.01	.01	.00	195.	*	19 MAR 0620	219	.00	.00	.00	0.
18 MAR 1755	70	.01	.01	.00	179.	*	19 MAR 0625	220	.00	.00	.00	0.
18 MAR 1800	71	.01	.01	.00	165.	*	19 MAR 0630	221	.00	.00	.00	0.
18 MAR 1805	72	.01	.01	.00	152.	*	19 MAR 0635	222	.00	.00	.00	0.
18 MAR 1810	73	.01	.01	.00	139.	*	19 MAR 0640	223	.00	.00	.00	0.
18 MAR 1815	74	.00	.00	.00	128.	*	19 MAR 0645	224	.00	.00	.00	0.
18 MAR 1820	75	.00	.00	.00	118.	*	19 MAR 0650	225	.00	.00	.00	0.
18 MAR 1825	76	.00	.00	.00	108.	*	19 MAR 0655	226	.00	.00	.00	0.
18 MAR 1830	77	.00	.00	.00	99.	*	19 MAR 0700	227	.00	.00	.00	0.
18 MAR 1835	78	.00	.00	.00	91.	*	19 MAR 0705	228	.00	.00	.00	0.
18 MAR 1840	79	.00	.00	.00	84.	*	19 MAR 0710	229	.00	.00	.00	0.
18 MAR 1845	80	.00	.00	.00	77.	*	19 MAR 0715	230	.00	.00	.00	0.
18 MAR 1850	81	.00	.00	.00	70.	*	19 MAR 0720	231	.00	.00	.00	0.
18 MAR 1855	82	.00	.00	.00	64.	*	19 MAR 0725	232	.00	.00	.00	0.

18 MAR 1900	83	.00	.00	.00	59.	*	19 MAR 0730	233	.00	.00	.00	0.
18 MAR 1905	84	.00	.00	.00	54.	*	19 MAR 0735	234	.00	.00	.00	0.
18 MAR 1910	85	.00	.00	.00	49.	*	19 MAR 0740	235	.00	.00	.00	0.
18 MAR 1915	86	.00	.00	.00	45.	*	19 MAR 0745	236	.00	.00	.00	0.
18 MAR 1920	87	.00	.00	.00	41.	*	19 MAR 0750	237	.00	.00	.00	0.
18 MAR 1925	88	.00	.00	.00	37.	*	19 MAR 0755	238	.00	.00	.00	0.
18 MAR 1930	89	.00	.00	.00	34.	*	19 MAR 0800	239	.00	.00	.00	0.
18 MAR 1935	90	.00	.00	.00	31.	*	19 MAR 0805	240	.00	.00	.00	0.
18 MAR 1940	91	.00	.00	.00	28.	*	19 MAR 0810	241	.00	.00	.00	0.
18 MAR 1945	92	.00	.00	.00	26.	*	19 MAR 0815	242	.00	.00	.00	0.
18 MAR 1950	93	.00	.00	.00	23.	*	19 MAR 0820	243	.00	.00	.00	0.
18 MAR 1955	94	.00	.00	.00	21.	*	19 MAR 0825	244	.00	.00	.00	0.
18 MAR 2000	95	.00	.00	.00	20.	*	19 MAR 0830	245	.00	.00	.00	0.
18 MAR 2005	96	.00	.00	.00	18.	*	19 MAR 0835	246	.00	.00	.00	0.
18 MAR 2010	97	.00	.00	.00	16.	*	19 MAR 0840	247	.00	.00	.00	0.
18 MAR 2015	98	.00	.00	.00	15.	*	19 MAR 0845	248	.00	.00	.00	0.
18 MAR 2020	99	.00	.00	.00	13.	*	19 MAR 0850	249	.00	.00	.00	0.
18 MAR 2025	100	.00	.00	.00	12.	*	19 MAR 0855	250	.00	.00	.00	0.
18 MAR 2030	101	.00	.00	.00	11.	*	19 MAR 0900	251	.00	.00	.00	0.
18 MAR 2035	102	.00	.00	.00	10.	*	19 MAR 0905	252	.00	.00	.00	0.
18 MAR 2040	103	.00	.00	.00	9.	*	19 MAR 0910	253	.00	.00	.00	0.
18 MAR 2045	104	.00	.00	.00	8.	*	19 MAR 0915	254	.00	.00	.00	0.
18 MAR 2050	105	.00	.00	.00	8.	*	19 MAR 0920	255	.00	.00	.00	0.
18 MAR 2055	106	.00	.00	.00	7.	*	19 MAR 0925	256	.00	.00	.00	0.
18 MAR 2100	107	.00	.00	.00	6.	*	19 MAR 0930	257	.00	.00	.00	0.
18 MAR 2105	108	.00	.00	.00	6.	*	19 MAR 0935	258	.00	.00	.00	0.
18 MAR 2110	109	.00	.00	.00	5.	*	19 MAR 0940	259	.00	.00	.00	0.
18 MAR 2115	110	.00	.00	.00	4.	*	19 MAR 0945	260	.00	.00	.00	0.
18 MAR 2120	111	.00	.00	.00	3.	*	19 MAR 0950	261	.00	.00	.00	0.
18 MAR 2125	112	.00	.00	.00	3.	*	19 MAR 0955	262	.00	.00	.00	0.
18 MAR 2130	113	.00	.00	.00	2.	*	19 MAR 1000	263	.00	.00	.00	0.
18 MAR 2135	114	.00	.00	.00	2.	*	19 MAR 1005	264	.00	.00	.00	0.
18 MAR 2140	115	.00	.00	.00	1.	*	19 MAR 1010	265	.00	.00	.00	0.
18 MAR 2145	116	.00	.00	.00	1.	*	19 MAR 1015	266	.00	.00	.00	0.
18 MAR 2150	117	.00	.00	.00	1.	*	19 MAR 1020	267	.00	.00	.00	0.
18 MAR 2155	118	.00	.00	.00	1.	*	19 MAR 1025	268	.00	.00	.00	0.
18 MAR 2200	119	.00	.00	.00	0.	*	19 MAR 1030	269	.00	.00	.00	0.
18 MAR 2205	120	.00	.00	.00	0.	*	19 MAR 1035	270	.00	.00	.00	0.
18 MAR 2210	121	.00	.00	.00	0.	*	19 MAR 1040	271	.00	.00	.00	0.
18 MAR 2215	122	.00	.00	.00	0.	*	19 MAR 1045	272	.00	.00	.00	0.
18 MAR 2220	123	.00	.00	.00	0.	*	19 MAR 1050	273	.00	.00	.00	0.
18 MAR 2225	124	.00	.00	.00	0.	*	19 MAR 1055	274	.00	.00	.00	0.
18 MAR 2230	125	.00	.00	.00	0.	*	19 MAR 1100	275	.00	.00	.00	0.
18 MAR 2235	126	.00	.00	.00	0.	*	19 MAR 1105	276	.00	.00	.00	0.
18 MAR 2240	127	.00	.00	.00	0.	*	19 MAR 1110	277	.00	.00	.00	0.
18 MAR 2245	128	.00	.00	.00	0.	*	19 MAR 1115	278	.00	.00	.00	0.
18 MAR 2250	129	.00	.00	.00	0.	*	19 MAR 1120	279	.00	.00	.00	0.
18 MAR 2255	130	.00	.00	.00	0.	*	19 MAR 1125	280	.00	.00	.00	0.
18 MAR 2300	131	.00	.00	.00	0.	*	19 MAR 1130	281	.00	.00	.00	0.
18 MAR 2305	132	.00	.00	.00	0.	*	19 MAR 1135	282	.00	.00	.00	0.
18 MAR 2310	133	.00	.00	.00	0.	*	19 MAR 1140	283	.00	.00	.00	0.
18 MAR 2315	134	.00	.00	.00	0.	*	19 MAR 1145	284	.00	.00	.00	0.
18 MAR 2320	135	.00	.00	.00	0.	*	19 MAR 1150	285	.00	.00	.00	0.
18 MAR 2325	136	.00	.00	.00	0.	*	19 MAR 1155	286	.00	.00	.00	0.
18 MAR 2330	137	.00	.00	.00	0.	*	19 MAR 1200	287	.00	.00	.00	0.
18 MAR 2335	138	.00	.00	.00	0.	*	19 MAR 1205	288	.00	.00	.00	0.
18 MAR 2340	139	.00	.00	.00	0.	*	19 MAR 1210	289	.00	.00	.00	0.
18 MAR 2345	140	.00	.00	.00	0.	*	19 MAR 1215	290	.00	.00	.00	0.

18 MAR 2350	141	.00	.00	.00	0.	*	19 MAR 1220	291	.00	.00	.00	0.
18 MAR 2355	142	.00	.00	.00	0.	*	19 MAR 1225	292	.00	.00	.00	0.
19 MAR 0000	143	.00	.00	.00	0.	*	19 MAR 1230	293	.00	.00	.00	0.
19 MAR 0005	144	.00	.00	.00	0.	*	19 MAR 1235	294	.00	.00	.00	0.
19 MAR 0010	145	.00	.00	.00	0.	*	19 MAR 1240	295	.00	.00	.00	0.
19 MAR 0015	146	.00	.00	.00	0.	*	19 MAR 1245	296	.00	.00	.00	0.
19 MAR 0020	147	.00	.00	.00	0.	*	19 MAR 1250	297	.00	.00	.00	0.
19 MAR 0025	148	.00	.00	.00	0.	*	19 MAR 1255	298	.00	.00	.00	0.
19 MAR 0030	149	.00	.00	.00	0.	*	19 MAR 1300	299	.00	.00	.00	0.
19 MAR 0035	150	.00	.00	.00	0.	*	19 MAR 1305	300	.00	.00	.00	0.
						*						

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TOTAL RAINFALL = 2.91, TOTAL LOSS = 1.11, TOTAL EXCESS = 1.81

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
340.	4.75		108.	28.	27.	27.
		(INCHES)	1.759	1.797	1.797	1.797
		(AC-FT)	54.	55.	55.	55.

CUMULATIVE AREA = .57 SQ MI

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          *            *
130 KK    *     RTEE   *
          *            *
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ROUTE SUB BASIN E THROUGH RESERVOIR TO REMOVE DEVELOPED AREA STORAGE

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137 KO        OUTPUT CONTROL VARIABLES
                    IPRNT          2  PRINT CONTROL
                    IPLOT          0  PLOT CONTROL
                    QSCAL         0.  HYDROGRAPH PLOT SCALE

            HYDROGRAPH ROUTING DATA

132 RS        STORAGE ROUTING
                    NSTPS          1  NUMBER OF SUBREACHES
                     ITYP       STOR  TYPE OF INITIAL CONDITION
                   RSVRIC        .00  INITIAL CONDITION
                        X        .00 WORKING R AND D COEFFICIENT

133 SV          STORAGE          .0      10.0      20.0      30.0      31.5      35.7      40.0

134 SE        ELEVATION      100.00    101.00    102.00    103.00    104.00    104.50    105.00

135 SQ        DISCHARGE          0.        0.        0.        0.        0.     1500.     3000.

136 SE        ELEVATION      100.00    101.00    102.00    103.00    104.00    104.50    105.00
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COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	10.00	20.00	30.00	31.47	35.65	40.00
OUTFLOW	.00	.00	.00	.00	.00	1500.00	3000.00
ELEVATION	100.00	101.00	102.00	103.00	104.00	104.50	105.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN 0. TO 3000.
THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

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HYDROGRAPH AT STATION RTEE

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DA MON HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA MON HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA MON HRMN	ORD	OUTFLOW	STORAGE	STAGE
18 MAR 1210	1	0.	.0	100.0	*	18 MAR 2030	101	12.	31.5	104.0	*	19 MAR 0450	201	0.	31.5	104.0
18 MAR 1215	2	0.	.0	100.0	*	18 MAR 2035	102	11.	31.5	104.0	*	19 MAR 0455	202	0.	31.5	104.0
18 MAR 1220	3	0.	.0	100.0	*	18 MAR 2040	103	10.	31.5	104.0	*	19 MAR 0500	203	0.	31.5	104.0
18 MAR 1225	4	0.	.0	100.0	*	18 MAR 2045	104	9.	31.5	104.0	*	19 MAR 0505	204	0.	31.5	104.0
18 MAR 1230	5	0.	.0	100.0	*	18 MAR 2050	105	8.	31.5	104.0	*	19 MAR 0510	205	0.	31.5	104.0
18 MAR 1235	6	0.	.0	100.0	*	18 MAR 2055	106	7.	31.5	104.0	*	19 MAR 0515	206	0.	31.5	104.0
18 MAR 1240	7	0.	.0	100.0	*	18 MAR 2100	107	7.	31.5	104.0	*	19 MAR 0520	207	0.	31.5	104.0
18 MAR 1245	8	0.	.0	100.0	*	18 MAR 2105	108	6.	31.5	104.0	*	19 MAR 0525	208	0.	31.5	104.0
18 MAR 1250	9	0.	.0	100.0	*	18 MAR 2110	109	5.	31.5	104.0	*	19 MAR 0530	209	0.	31.5	104.0
18 MAR 1255	10	0.	.0	100.0	*	18 MAR 2115	110	4.	31.5	104.0	*	19 MAR 0535	210	0.	31.5	104.0
18 MAR 1300	11	0.	.0	100.0	*	18 MAR 2120	111	4.	31.5	104.0	*	19 MAR 0540	211	0.	31.5	104.0
18 MAR 1305	12	0.	.1	100.0	*	18 MAR 2125	112	3.	31.5	104.0	*	19 MAR 0545	212	0.	31.5	104.0
18 MAR 1310	13	0.	.1	100.0	*	18 MAR 2130	113	2.	31.5	104.0	*	19 MAR 0550	213	0.	31.5	104.0
18 MAR 1315	14	0.	.1	100.0	*	18 MAR 2135	114	2.	31.5	104.0	*	19 MAR 0555	214	0.	31.5	104.0
18 MAR 1320	15	0.	.1	100.0	*	18 MAR 2140	115	1.	31.5	104.0	*	19 MAR 0600	215	0.	31.5	104.0
3 MAR 1325	16	0.	.2	100.0	*	18 MAR 2145	116	1.	31.5	104.0	*	19 MAR 0605	216	0.	31.5	104.0
3 MAR 1330	17	0.	.2	100.0	*	18 MAR 2150	117	1.	31.5	104.0	*	19 MAR 0610	217	0.	31.5	104.0
3 MAR 1335	18	0.	.2	100.0	*	18 MAR 2155	118	1.	31.5	104.0	*	19 MAR 0615	218	0.	31.5	104.0
3 MAR 1340	19	0.	.2	100.0	*	18 MAR 2200	119	0.	31.5	104.0	*	19 MAR 0620	219	0.	31.5	104.0
3 MAR 1345	20	0.	.3	100.0	*	18 MAR 2205	120	0.	31.5	104.0	*	19 MAR 0625	220	0.	31.5	104.0
3 MAR 1350	21	0.	.3	100.0	*	18 MAR 2210	121	0.	31.5	104.0	*	19 MAR 0630	221	0.	31.5	104.0
3 MAR 1355	22	0.	.4	100.0	*	18 MAR 2215	122	0.	31.5	104.0	*	19 MAR 0635	222	0.	31.5	104.0
18 MAR 1400	23	0.	.4	100.0	*	18 MAR 2220	123	0.	31.5	104.0	*	19 MAR 0640	223	0.	31.5	104.0
18 MAR 1405	24	0.	.4	100.0	*	18 MAR 2225	124	0.	31.5	104.0	*	19 MAR 0645	224	0.	31.5	104.0
18 MAR 1410	25	0.	.5	100.0	*	18 MAR 2230	125	0.	31.5	104.0	*	19 MAR 0650	225	0.	31.5	104.0
18 MAR 1415	26	0.	.5	100.1	*	18 MAR 2235	126	0.	31.5	104.0	*	19 MAR 0655	226	0.	31.5	104.0
18 MAR 1420	27	0.	.6	100.1	*	18 MAR 2240	127	0.	31.5	104.0	*	19 MAR 0700	227	0.	31.5	104.0
18 MAR 1425	28	0.	.6	100.1	*	18 MAR 2245	128	0.	31.5	104.0	*	19 MAR 0705	228	0.	31.5	104.0
18 MAR 1430	29	0.	.7	100.1	*	18 MAR 2250	129	0.	31.5	104.0	*	19 MAR 0710	229	0.	31.5	104.0
18 MAR 1435	30	0.	.7	100.1	*	18 MAR 2255	130	0.	31.5	104.0	*	19 MAR 0715	230	0.	31.5	104.0
18 MAR 1440	31	0.	.7	100.1	*	18 MAR 2300	131	0.	31.5	104.0	*	19 MAR 0720	231	0.	31.5	104.0
18 MAR 1445	32	0.	.8	100.1	*	18 MAR 2305	132	0.	31.5	104.0	*	19 MAR 0725	232	0.	31.5	104.0
18 MAR 1450	33	0.	.8	100.1	*	18 MAR 2310	133	0.	31.5	104.0	*	19 MAR 0730	233	0.	31.5	104.0
18 MAR 1455	34	0.	.9	100.1	*	18 MAR 2315	134	0.	31.5	104.0	*	19 MAR 0735	234	0.	31.5	104.0
18 MAR 1500	35	0.	.9	100.1	*	18 MAR 2320	135	0.	31.5	104.0	*	19 MAR 0740	235	0.	31.5	104.0
18 MAR 1505	36	0.	1.0	100.1	*	18 MAR 2325	136	0.	31.5	104.0	*	19 MAR 0745	236	0.	31.5	104.0
18 MAR 1510	37	0.	1.0	100.1	*	18 MAR 2330	137	0.	31.5	104.0	*	19 MAR 0750	237	0.	31.5	104.0

18 MAR	1515	38	0.	1.1	100.1	*	18 MAR	2335	138	0.	31.5	104.0	*	19 MAR	0755	238	0.	31.5	104.0
18 MAR	1520	39	0.	1.2	100.1	*	18 MAR	2340	139	0.	31.5	104.0	*	19 MAR	0800	239	0.	31.5	104.0
18 MAR	1525	40	0.	1.2	100.1	*	18 MAR	2345	140	0.	31.5	104.0	*	19 MAR	0805	240	0.	31.5	104.0
18 MAR	1530	41	0.	1.3	100.1	*	18 MAR	2350	141	0.	31.5	104.0	*	19 MAR	0810	241	0.	31.5	104.0
18 MAR	1535	42	0.	1.4	100.1	*	18 MAR	2355	142	0.	31.5	104.0	*	19 MAR	0815	242	0.	31.5	104.0
18 MAR	1540	43	0.	1.5	100.1	*	19 MAR	0000	143	0.	31.5	104.0	*	19 MAR	0820	243	0.	31.5	104.0
18 MAR	1545	44	0.	1.6	100.2	*	19 MAR	0005	144	0.	31.5	104.0	*	19 MAR	0825	244	0.	31.5	104.0
18 MAR	1550	45	0.	1.7	100.2	*	19 MAR	0010	145	0.	31.5	104.0	*	19 MAR	0830	245	0.	31.5	104.0
18 MAR	1555	46	0.	1.9	100.2	*	19 MAR	0015	146	0.	31.5	104.0	*	19 MAR	0835	246	0.	31.5	104.0
18 MAR	1600	47	0.	2.2	100.2	*	19 MAR	0020	147	0.	31.5	104.0	*	19 MAR	0840	247	0.	31.5	104.0
18 MAR	1605	48	0.	2.6	100.3	*	19 MAR	0025	148	0.	31.5	104.0	*	19 MAR	0845	248	0.	31.5	104.0
18 MAR	1610	49	0.	3.2	100.3	*	19 MAR	0030	149	0.	31.5	104.0	*	19 MAR	0850	249	0.	31.5	104.0
18 MAR	1615	50	0.	3.9	100.4	*	19 MAR	0035	150	0.	31.5	104.0	*	19 MAR	0855	250	0.	31.5	104.0
18 MAR	1620	51	0.	5.0	100.5	*	19 MAR	0040	151	0.	31.5	104.0	*	19 MAR	0900	251	0.	31.5	104.0
18 MAR	1625	52	0.	6.2	100.6	*	19 MAR	0045	152	0.	31.5	104.0	*	19 MAR	0905	252	0.	31.5	104.0
18 MAR	1630	53	0.	7.8	100.8	*	19 MAR	0050	153	0.	31.5	104.0	*	19 MAR	0910	253	0.	31.5	104.0
18 MAR	1635	54	0.	9.6	101.0	*	19 MAR	0055	154	0.	31.5	104.0	*	19 MAR	0915	254	0.	31.5	104.0
18 MAR	1640	55	0.	11.6	101.2	*	19 MAR	0100	155	0.	31.5	104.0	*	19 MAR	0920	255	0.	31.5	104.0
18 MAR	1645	56	0.	13.7	101.4	*	19 MAR	0105	156	0.	31.5	104.0	*	19 MAR	0925	256	0.	31.5	104.0
18 MAR	1650	57	0.	16.0	101.6	*	19 MAR	0110	157	0.	31.5	104.0	*	19 MAR	0930	257	0.	31.5	104.0
18 MAR	1655	58	0.	18.3	101.8	*	19 MAR	0115	158	0.	31.5	104.0	*	19 MAR	0935	258	0.	31.5	104.0
18 MAR	1700	59	0.	20.7	102.1	*	19 MAR	0120	159	0.	31.5	104.0	*	19 MAR	0940	259	0.	31.5	104.0
18 MAR	1705	60	0.	23.0	102.3	*	19 MAR	0125	160	0.	31.5	104.0	*	19 MAR	0945	260	0.	31.5	104.0
18 MAR	1710	61	0.	25.2	102.5	*	19 MAR	0130	161	0.	31.5	104.0	*	19 MAR	0950	261	0.	31.5	104.0
18 MAR	1715	62	0.	27.4	102.7	*	19 MAR	0135	162	0.	31.5	104.0	*	19 MAR	0955	262	0.	31.5	104.0
18 MAR	1720	63	0.	29.5	102.9	*	19 MAR	0140	163	0.	31.5	104.0	*	19 MAR	1000	263	0.	31.5	104.0
18 MAR	1725	64	2.	31.5	104.0	*	19 MAR	0145	164	0.	31.5	104.0	*	19 MAR	1005	264	0.	31.5	104.0
18 MAR	1730	65	300.	32.3	104.1	*	19 MAR	0150	165	0.	31.5	104.0	*	19 MAR	1010	265	0.	31.5	104.0
18 MAR	1735	66	249.	32.2	104.1	*	19 MAR	0155	166	0.	31.5	104.0	*	19 MAR	1015	266	0.	31.5	104.0
18 MAR	1740	67	235.	32.1	104.1	*	19 MAR	0200	167	0.	31.5	104.0	*	19 MAR	1020	267	0.	31.5	104.0
18 MAR	1745	68	218.	32.1	104.1	*	19 MAR	0205	168	0.	31.5	104.0	*	19 MAR	1025	268	0.	31.5	104.0
18 MAR	1750	69	201.	32.0	104.1	*	19 MAR	0210	169	0.	31.5	104.0	*	19 MAR	1030	269	0.	31.5	104.0
18 MAR	1755	70	185.	32.0	104.1	*	19 MAR	0215	170	0.	31.5	104.0	*	19 MAR	1035	270	0.	31.5	104.0
18 MAR	1800	71	171.	31.9	104.1	*	19 MAR	0220	171	0.	31.5	104.0	*	19 MAR	1040	271	0.	31.5	104.0
18 MAR	1805	72	157.	31.9	104.1	*	19 MAR	0225	172	0.	31.5	104.0	*	19 MAR	1045	272	0.	31.5	104.0
18 MAR	1810	73	144.	31.9	104.0	*	19 MAR	0230	173	0.	31.5	104.0	*	19 MAR	1050	273	0.	31.5	104.0
18 MAR	1815	74	133.	31.8	104.0	*	19 MAR	0235	174	0.	31.5	104.0	*	19 MAR	1055	274	0.	31.5	104.0
18 MAR	1820	75	122.	31.8	104.0	*	19 MAR	0240	175	0.	31.5	104.0	*	19 MAR	1100	275	0.	31.5	104.0
18 MAR	1825	76	112.	31.8	104.0	*	19 MAR	0245	176	0.	31.5	104.0	*	19 MAR	1105	276	0.	31.5	104.0
18 MAR	1830	77	103.	31.8	104.0	*	19 MAR	0250	177	0.	31.5	104.0	*	19 MAR	1110	277	0.	31.5	104.0
18 MAR	1835	78	95.	31.7	104.0	*	19 MAR	0255	178	0.	31.5	104.0	*	19 MAR	1115	278	0.	31.5	104.0
18 MAR	1840	79	87.	31.7	104.0	*	19 MAR	0300	179	0.	31.5	104.0	*	19 MAR	1120	279	0.	31.5	104.0
18 MAR	1845	80	80.	31.7	104.0	*	19 MAR	0305	180	0.	31.5	104.0	*	19 MAR	1125	280	0.	31.5	104.0
18 MAR	1850	81	73.	31.7	104.0	*	19 MAR	0310	181	0.	31.5	104.0	*	19 MAR	1130	281	0.	31.5	104.0
18 MAR	1855	82	67.	31.7	104.0	*	19 MAR	0315	182	0.	31.5	104.0	*	19 MAR	1135	282	0.	31.5	104.0
18 MAR	1900	83	61.	31.6	104.0	*	19 MAR	0320	183	0.	31.5	104.0	*	19 MAR	1140	283	0.	31.5	104.0
18 MAR	1905	84	56.	31.6	104.0	*	19 MAR	0325	184	0.	31.5	104.0	*	19 MAR	1145	284	0.	31.5	104.0
18 MAR	1910	85	51.	31.6	104.0	*	19 MAR	0330	185	0.	31.5	104.0	*	19 MAR	1150	285	0.	31.5	104.0
18 MAR	1915	86	46.	31.6	104.0	*	19 MAR	0335	186	0.	31.5	104.0	*	19 MAR	1155	286	0.	31.5	104.0
18 MAR	1920	87	42.	31.6	104.0	*	19 MAR	0340	187	0.	31.5	104.0	*	19 MAR	1200	287	0.	31.5	104.0
18 MAR	1925	88	39.	31.6	104.0	*	19 MAR	0345	188	0.	31.5	104.0	*	19 MAR	1205	288	0.	31.5	104.0
18 MAR	1930	89	35.	31.6	104.0	*	19 MAR	0350	189	0.	31.5	104.0	*	19 MAR	1210	289	0.	31.5	104.0
18 MAR	1935	90	32.	31.6	104.0	*	19 MAR	0355	190	0.	31.5	104.0	*	19 MAR	1215	290	0.	31.5	104.0
18 MAR	1940	91	29.	31.6	104.0	*	19 MAR	0400	191	0.	31.5	104.0	*	19 MAR	1220	291	0.	31.5	104.0
18 MAR	1945	92	27.	31.5	104.0	*	19 MAR	0405	192	0.	31.5	104.0	*	19 MAR	1225	292	0.	31.5	104.0
18 MAR	1950	93	24.	31.5	104.0	*	19 MAR	0410	193	0.	31.5	104.0	*	19 MAR	1230	293	0.	31.5	104.0
18 MAR	1955	94	22.	31.5	104.0	*	19 MAR	0415	194	0.	31.5	104.0	*	19 MAR	1235	294	0.	31.5	104.0
18 MAR	2000	95	20.	31.5	104.0	*	19 MAR	0420	195	0.	31.5	104.0	*	19 MAR	1240	295	0.	31.5	104.0

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18 MAR 2005  96      18.     31.5    104.0 * 19 MAR 0425 196       0.     31.5    104.0 * 19 MAR 1245 296       0.     31.5    104.0
18 MAR 2010  97      17.     31.5    104.0 * 19 MAR 0430 197       0.     31.5    104.0 * 19 MAR 1250 297       0.     31.5    104.0
18 MAR 2015  98      15.     31.5    104.0 * 19 MAR 0435 198       0.     31.5    104.0 * 19 MAR 1255 298       0.     31.5    104.0
18 MAR 2020  99      14.     31.5    104.0 * 19 MAR 0440 199       0.     31.5    104.0 * 19 MAR 1300 299       0.     31.5    104.0
18 MAR 2025 100      13.     31.5    104.0 * 19 MAR 0445 200       0.     31.5    104.0 * 19 MAR 1305 300       0.     31.5    104.0
                                           *                                                *
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 PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                     6-HR       24-HR       72-HR     24.92-HR
  (CFS)       (HR)
                          (CFS)
   300.       5.33                   47.         12.         11.         11.
                        (INCHES)     .766        .766        .766        .766
                         (AC-FT)      23.         23.         23.         23.

PEAK STORAGE   TIME                        MAXIMUM AVERAGE STORAGE
                                     6-HR       24-HR       72-HR     24.92-HR
 (AC-FT)      (HR)
     32.       5.33                   32.         27.         26.         26.

 PEAK STAGE    TIME                          MAXIMUM AVERAGE STAGE
                                     6-HR       24-HR       72-HR     24.92-HR
  (FEET)      (HR)
   104.10      5.33                 104.02      103.38      103.25      103.25

                         CUMULATIVE AREA =     .57 SQ MI
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          *            *
 38 KK    *     REME   *
          *            *
          **************
                         DIVERT FLOW TO AGUA FRIA RIVER
                         FOR MODELING PURPOSES WE NEED DIVERSION FLOW AT THOMAS RD
                         AND 115TH (SOUTH) TO ACT AS MAINSTREAM.

 145 KO          OUTPUT CONTROL VARIABLES
                       IPRNT          2  PRINT CONTROL
                       IPLOT          0  PLOT CONTROL
                       QSCAL         0.  HYDROGRAPH PLOT SCALE

    DT           DIVERSION
                       ISTAD       DVRTE  DIVERSION HYDROGRAPH IDENTIFICATION

    DI              INFLOW         .00     11.59     29.74     66.65    130.38    217.20    266.94    320.62    378.13

    DQ       DIVERTED FLOW         .00     11.59     25.84     46.59     85.38    139.94    171.07    204.60    240.47

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DIVERSION HYDROGRAPH DVRTE

DA MON HRMN	ORD	FLOW	DA MON HRMN	ORD	FLOW	DA MON HRMN	ORD	FLOW	DA MON HRMN	ORD	FLOW
18 MAR 1210	1	0.	18 MAR 1825	76	74.	19 MAR 0040	151	0.	19 MAR 0655	226	0.
18 MAR 1215	2	0.	18 MAR 1830	77	69.	19 MAR 0045	152	0.	19 MAR 0700	227	0.
18 MAR 1220	3	0.	18 MAR 1835	78	64.	19 MAR 0050	153	0.	19 MAR 0705	228	0.
18 MAR 1225	4	0.	18 MAR 1840	79	59.	19 MAR 0055	154	0.	19 MAR 0710	229	0.
18 MAR 1230	5	0.	18 MAR 1845	80	54.	19 MAR 0100	155	0.	19 MAR 0715	230	0.
18 MAR 1235	6	0.	18 MAR 1850	81	50.	19 MAR 0105	156	0.	19 MAR 0720	231	0.
18 MAR 1240	7	0.	18 MAR 1855	82	47.	19 MAR 0110	157	0.	19 MAR 0725	232	0.
18 MAR 1245	8	0.	18 MAR 1900	83	43.	19 MAR 0115	158	0.	19 MAR 0730	233	0.
18 MAR 1250	9	0.	18 MAR 1905	84	40.	19 MAR 0120	159	0.	19 MAR 0735	234	0.
18 MAR 1255	10	0.	18 MAR 1910	85	38.	19 MAR 0125	160	0.	19 MAR 0740	235	0.
18 MAR 1300	11	0.	18 MAR 1915	86	35.	19 MAR 0130	161	0.	19 MAR 0745	236	0.
18 MAR 1305	12	0.	18 MAR 1920	87	33.	19 MAR 0135	162	0.	19 MAR 0750	237	0.
18 MAR 1310	13	0.	18 MAR 1925	88	31.	19 MAR 0140	163	0.	19 MAR 0755	238	0.
18 MAR 1315	14	0.	18 MAR 1930	89	29.	19 MAR 0145	164	0.	19 MAR 0800	239	0.
18 MAR 1320	15	0.	18 MAR 1935	90	27.	19 MAR 0150	165	0.	19 MAR 0805	240	0.
18 MAR 1325	16	0.	18 MAR 1940	91	26.	19 MAR 0155	166	0.	19 MAR 0810	241	0.
18 MAR 1330	17	0.	18 MAR 1945	92	24.	19 MAR 0200	167	0.	19 MAR 0815	242	0.
18 MAR 1335	18	0.	18 MAR 1950	93	22.	19 MAR 0205	168	0.	19 MAR 0820	243	0.
18 MAR 1340	19	0.	18 MAR 1955	94	20.	19 MAR 0210	169	0.	19 MAR 0825	244	0.
18 MAR 1345	20	0.	18 MAR 2000	95	18.	19 MAR 0215	170	0.	19 MAR 0830	245	0.
18 MAR 1350	21	0.	18 MAR 2005	96	17.	19 MAR 0220	171	0.	19 MAR 0835	246	0.
18 MAR 1355	22	0.	18 MAR 2010	97	16.	19 MAR 0225	172	0.	19 MAR 0840	247	0.
18 MAR 1400	23	0.	18 MAR 2015	98	15.	19 MAR 0230	173	0.	19 MAR 0845	248	0.
18 MAR 1405	24	0.	18 MAR 2020	99	13.	19 MAR 0235	174	0.	19 MAR 0850	249	0.
18 MAR 1410	25	0.	18 MAR 2025	100	13.	19 MAR 0240	175	0.	19 MAR 0855	250	0.
18 MAR 1415	26	0.	18 MAR 2030	101	12.	19 MAR 0245	176	0.	19 MAR 0900	251	0.
18 MAR 1420	27	0.	18 MAR 2035	102	11.	19 MAR 0250	177	0.	19 MAR 0905	252	0.
18 MAR 1425	28	0.	18 MAR 2040	103	10.	19 MAR 0255	178	0.	19 MAR 0910	253	0.
18 MAR 1430	29	0.	18 MAR 2045	104	9.	19 MAR 0300	179	0.	19 MAR 0915	254	0.
18 MAR 1435	30	0.	18 MAR 2050	105	8.	19 MAR 0305	180	0.	19 MAR 0920	255	0.
18 MAR 1440	31	0.	18 MAR 2055	106	7.	19 MAR 0310	181	0.	19 MAR 0925	256	0.
18 MAR 1445	32	0.	18 MAR 2100	107	7.	19 MAR 0315	182	0.	19 MAR 0930	257	0.
18 MAR 1450	33	0.	18 MAR 2105	108	6.	19 MAR 0320	183	0.	19 MAR 0935	258	0.
18 MAR 1455	34	0.	18 MAR 2110	109	5.	19 MAR 0325	184	0.	19 MAR 0940	259	0.
18 MAR 1500	35	0.	18 MAR 2115	110	4.	19 MAR 0330	185	0.	19 MAR 0945	260	0.
18 MAR 1505	36	0.	18 MAR 2120	111	4.	19 MAR 0335	186	0.	19 MAR 0950	261	0.
18 MAR 1510	37	0.	18 MAR 2125	112	3.	19 MAR 0340	187	0.	19 MAR 0955	262	0.
18 MAR 1515	38	0.	18 MAR 2130	113	2.	19 MAR 0345	188	0.	19 MAR 1000	263	0.
18 MAR 1520	39	0.	18 MAR 2135	114	2.	19 MAR 0350	189	0.	19 MAR 1005	264	0.
18 MAR 1525	40	0.	18 MAR 2140	115	1.	19 MAR 0355	190	0.	19 MAR 1010	265	0.
18 MAR 1530	41	0.	18 MAR 2145	116	1.	19 MAR 0400	191	0.	19 MAR 1015	266	0.
18 MAR 1535	42	0.	18 MAR 2150	117	1.	19 MAR 0405	192	0.	19 MAR 1020	267	0.
18 MAR 1540	43	0.	18 MAR 2155	118	1.	19 MAR 0410	193	0.	19 MAR 1025	268	0.
18 MAR 1545	44	0.	18 MAR 2200	119	0.	19 MAR 0415	194	0.	19 MAR 1030	269	0.
18 MAR 1550	45	0.	18 MAR 2205	120	0.	19 MAR 0420	195	0.	19 MAR 1035	270	0.
18 MAR 1555	46	0.	18 MAR 2210	121	0.	19 MAR 0425	196	0.	19 MAR 1040	271	0.
18 MAR 1600	47	0.	18 MAR 2215	122	0.	19 MAR 0430	197	0.	19 MAR 1045	272	0.
18 MAR 1605	48	0.	18 MAR 2220	123	0.	19 MAR 0435	198	0.	19 MAR 1050	273	0.
18 MAR 1610	49	0.	18 MAR 2225	124	0.	19 MAR 0440	199	0.	19 MAR 1055	274	0.
18 MAR 1615	50	0.	18 MAR 2230	125	0.	19 MAR 0445	200	0.	19 MAR 1100	275	0.
18 MAR 1620	51	0.	18 MAR 2235	126	0.	19 MAR 0450	201	0.	19 MAR 1105	276	0.

18 MAR 1625	52	0.	*	18 MAR 2240	127	0.	*	19 MAR 0455	202	0.	*	19 MAR 1110	277	0.
18 MAR 1630	53	0.	*	18 MAR 2245	128	0.	*	19 MAR 0500	203	0.	*	19 MAR 1115	278	0.
18 MAR 1635	54	0.	*	18 MAR 2250	129	0.	*	19 MAR 0505	204	0.	*	19 MAR 1120	279	0.
18 MAR 1640	55	0.	*	18 MAR 2255	130	0.	*	19 MAR 0510	205	0.	*	19 MAR 1125	280	0.
18 MAR 1645	56	0.	*	18 MAR 2300	131	0.	*	19 MAR 0515	206	0.	*	19 MAR 1130	281	0.
18 MAR 1650	57	0.	*	18 MAR 2305	132	0.	*	19 MAR 0520	207	0.	*	19 MAR 1135	282	0.
18 MAR 1655	58	0.	*	18 MAR 2310	133	0.	*	19 MAR 0525	208	0.	*	19 MAR 1140	283	0.
18 MAR 1700	59	0.	*	18 MAR 2315	134	0.	*	19 MAR 0530	209	0.	*	19 MAR 1145	284	0.
18 MAR 1705	60	0.	*	18 MAR 2320	135	0.	*	19 MAR 0535	210	0.	*	19 MAR 1150	285	0.
18 MAR 1710	61	0.	*	18 MAR 2325	136	0.	*	19 MAR 0540	211	0.	*	19 MAR 1155	286	0.
18 MAR 1715	62	0.	*	18 MAR 2330	137	0.	*	19 MAR 0545	212	0.	*	19 MAR 1200	287	0.
18 MAR 1720	63	0.	*	18 MAR 2335	138	0.	*	19 MAR 0550	213	0.	*	19 MAR 1205	288	0.
18 MAR 1725	64	2.	*	18 MAR 2340	139	0.	*	19 MAR 0555	214	0.	*	19 MAR 1210	289	0.
18 MAR 1730	65	192.	*	18 MAR 2345	140	0.	*	19 MAR 0600	215	0.	*	19 MAR 1215	290	0.
18 MAR 1735	66	160.	*	18 MAR 2350	141	0.	*	19 MAR 0605	216	0.	*	19 MAR 1220	291	0.
18 MAR 1740	67	151.	*	18 MAR 2355	142	0.	*	19 MAR 0610	217	0.	*	19 MAR 1225	292	0.
18 MAR 1745	68	140.	*	19 MAR 0000	143	0.	*	19 MAR 0615	218	0.	*	19 MAR 1230	293	0.
18 MAR 1750	69	130.	*	19 MAR 0005	144	0.	*	19 MAR 0620	219	0.	*	19 MAR 1235	294	0.
18 MAR 1755	70	120.	*	19 MAR 0010	145	0.	*	19 MAR 0625	220	0.	*	19 MAR 1240	295	0.
18 MAR 1800	71	111.	*	19 MAR 0015	146	0.	*	19 MAR 0630	221	0.	*	19 MAR 1245	296	0.
18 MAR 1805	72	102.	*	19 MAR 0020	147	0.	*	19 MAR 0635	222	0.	*	19 MAR 1250	297	0.
18 MAR 1810	73	94.	*	19 MAR 0025	148	0.	*	19 MAR 0640	223	0.	*	19 MAR 1255	298	0.
18 MAR 1815	74	87.	*	19 MAR 0030	149	0.	*	19 MAR 0645	224	0.	*	19 MAR 1300	299	0.
18 MAR 1820	75	80.	*	19 MAR 0035	150	0.	*	19 MAR 0650	225	0.	*	19 MAR 1305	300	0.
			*				*				*			

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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
192.	5.33		33.	8.	8.	8.
		(INCHES)	.528	.528	.528	.528
		(AC-FT)	16.	16.	16.	16.

CUMULATIVE AREA = .57 SQ MI

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HYDROGRAPH AT STATION REME

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DA MON HRMN	ORD	FLOW	*	DA MON HRMN	ORD	FLOW	*	DA MON HRMN	ORD	FLOW	*	DA MON HRMN	ORD	FLOW
			*				*				*			
18 MAR 1210	1	0.	*	18 MAR 1825	76	38.	*	19 MAR 0040	151	0.	*	19 MAR 0655	226	0.
18 MAR 1215	2	0.	*	18 MAR 1830	77	34.	*	19 MAR 0045	152	0.	*	19 MAR 0700	227	0.
18 MAR 1220	3	0.	*	18 MAR 1835	78	31.	*	19 MAR 0050	153	0.	*	19 MAR 0705	228	0.
18 MAR 1225	4	0.	*	18 MAR 1840	79	28.	*	19 MAR 0055	154	0.	*	19 MAR 0710	229	0.
18 MAR 1230	5	0.	*	18 MAR 1845	80	25.	*	19 MAR 0100	155	0.	*	19 MAR 0715	230	0.
18 MAR 1235	6	0.	*	18 MAR 1850	81	23.	*	19 MAR 0105	156	0.	*	19 MAR 0720	231	0.
18 MAR 1240	7	0.	*	18 MAR 1855	82	20.	*	19 MAR 0110	157	0.	*	19 MAR 0725	232	0.
18 MAR 1245	8	0.	*	18 MAR 1900	83	18.	*	19 MAR 0115	158	0.	*	19 MAR 0730	233	0.
18 MAR 1250	9	0.	*	18 MAR 1905	84	15.	*	19 MAR 0120	159	0.	*	19 MAR 0735	234	0.
18 MAR 1255	10	0.	*	18 MAR 1910	85	13.	*	19 MAR 0125	160	0.	*	19 MAR 0740	235	0.
18 MAR 1300	11	0.	*	18 MAR 1915	86	11.	*	19 MAR 0130	161	0.	*	19 MAR 0745	236	0.
18 MAR 1305	12	0.	*	18 MAR 1920	87	9.	*	19 MAR 0135	162	0.	*	19 MAR 0750	237	0.

18 MAR 1310	13	0.	*	18 MAR 1925	88	8.	*	19 MAR 0140	163	0.	*	19 MAR 0755	238	0.
18 MAR 1315	14	0.	*	18 MAR 1930	89	6.	*	19 MAR 0145	164	0.	*	19 MAR 0800	239	0.
18 MAR 1320	15	0.	*	18 MAR 1935	90	5.	*	19 MAR 0150	165	0.	*	19 MAR 0805	240	0.
18 MAR 1325	16	0.	*	18 MAR 1940	91	4.	*	19 MAR 0155	166	0.	*	19 MAR 0810	241	0.
18 MAR 1330	17	0.	*	18 MAR 1945	92	3.	*	19 MAR 0200	167	0.	*	19 MAR 0815	242	0.
18 MAR 1335	18	0.	*	18 MAR 1950	93	3.	*	19 MAR 0205	168	0.	*	19 MAR 0820	243	0.
18 MAR 1340	19	0.	*	18 MAR 1955	94	2.	*	19 MAR 0210	169	0.	*	19 MAR 0825	244	0.
18 MAR 1345	20	0.	*	18 MAR 2000	95	2.	*	19 MAR 0215	170	0.	*	19 MAR 0830	245	0.
18 MAR 1350	21	0.	*	18 MAR 2005	96	1.	*	19 MAR 0220	171	0.	*	19 MAR 0835	246	0.
18 MAR 1355	22	0.	*	18 MAR 2010	97	1.	*	19 MAR 0225	172	0.	*	19 MAR 0840	247	0.
18 MAR 1400	23	0.	*	18 MAR 2015	98	1.	*	19 MAR 0230	173	0.	*	19 MAR 0845	248	0.
18 MAR 1405	24	0.	*	18 MAR 2020	99	1.	*	19 MAR 0235	174	0.	*	19 MAR 0850	249	0.
18 MAR 1410	25	0.	*	18 MAR 2025	100	0.	*	19 MAR 0240	175	0.	*	19 MAR 0855	250	0.
18 MAR 1415	26	0.	*	18 MAR 2030	101	0.	*	19 MAR 0245	176	0.	*	19 MAR 0900	251	0.
18 MAR 1420	27	0.	*	18 MAR 2035	102	0.	*	19 MAR 0250	177	0.	*	19 MAR 0905	252	0.
18 MAR 1425	28	0.	*	18 MAR 2040	103	0.	*	19 MAR 0255	178	0.	*	19 MAR 0910	253	0.
18 MAR 1430	29	0.	*	18 MAR 2045	104	0.	*	19 MAR 0300	179	0.	*	19 MAR 0915	254	0.
18 MAR 1435	30	0.	*	18 MAR 2050	105	0.	*	19 MAR 0305	180	0.	*	19 MAR 0920	255	0.
18 MAR 1440	31	0.	*	18 MAR 2055	106	0.	*	19 MAR 0310	181	0.	*	19 MAR 0925	256	0.
18 MAR 1445	32	0.	*	18 MAR 2100	107	0.	*	19 MAR 0315	182	0.	*	19 MAR 0930	257	0.
18 MAR 1450	33	0.	*	18 MAR 2105	108	0.	*	19 MAR 0320	183	0.	*	19 MAR 0935	258	0.
18 MAR 1455	34	0.	*	18 MAR 2110	109	0.	*	19 MAR 0325	184	0.	*	19 MAR 0940	259	0.
18 MAR 1500	35	0.	*	18 MAR 2115	110	0.	*	19 MAR 0330	185	0.	*	19 MAR 0945	260	0.
18 MAR 1505	36	0.	*	18 MAR 2120	111	0.	*	19 MAR 0335	186	0.	*	19 MAR 0950	261	0.
18 MAR 1510	37	0.	*	18 MAR 2125	112	0.	*	19 MAR 0340	187	0.	*	19 MAR 0955	262	0.
18 MAR 1515	38	0.	*	18 MAR 2130	113	0.	*	19 MAR 0345	188	0.	*	19 MAR 1000	263	0.
18 MAR 1520	39	0.	*	18 MAR 2135	114	0.	*	19 MAR 0350	189	0.	*	19 MAR 1005	264	0.
18 MAR 1525	40	0.	*	18 MAR 2140	115	0.	*	19 MAR 0355	190	0.	*	19 MAR 1010	265	0.
18 MAR 1530	41	0.	*	18 MAR 2145	116	0.	*	19 MAR 0400	191	0.	*	19 MAR 1015	266	0.
18 MAR 1535	42	0.	*	18 MAR 2150	117	0.	*	19 MAR 0405	192	0.	*	19 MAR 1020	267	0.
18 MAR 1540	43	0.	*	18 MAR 2155	118	0.	*	19 MAR 0410	193	0.	*	19 MAR 1025	268	0.
18 MAR 1545	44	0.	*	18 MAR 2200	119	0.	*	19 MAR 0415	194	0.	*	19 MAR 1030	269	0.
18 MAR 1550	45	0.	*	18 MAR 2205	120	0.	*	19 MAR 0420	195	0.	*	19 MAR 1035	270	0.
18 MAR 1555	46	0.	*	18 MAR 2210	121	0.	*	19 MAR 0425	196	0.	*	19 MAR 1040	271	0.
18 MAR 1600	47	0.	*	18 MAR 2215	122	0.	*	19 MAR 0430	197	0.	*	19 MAR 1045	272	0.
18 MAR 1605	48	0.	*	18 MAR 2220	123	0.	*	19 MAR 0435	198	0.	*	19 MAR 1050	273	0.
18 MAR 1610	49	0.	*	18 MAR 2225	124	0.	*	19 MAR 0440	199	0.	*	19 MAR 1055	274	0.
18 MAR 1615	50	0.	*	18 MAR 2230	125	0.	*	19 MAR 0445	200	0.	*	19 MAR 1100	275	0.
18 MAR 1620	51	0.	*	18 MAR 2235	126	0.	*	19 MAR 0450	201	0.	*	19 MAR 1105	276	0.
18 MAR 1625	52	0.	*	18 MAR 2240	127	0.	*	19 MAR 0455	202	0.	*	19 MAR 1110	277	0.
18 MAR 1630	53	0.	*	18 MAR 2245	128	0.	*	19 MAR 0500	203	0.	*	19 MAR 1115	278	0.
18 MAR 1635	54	0.	*	18 MAR 2250	129	0.	*	19 MAR 0505	204	0.	*	19 MAR 1120	279	0.
18 MAR 1640	55	0.	*	18 MAR 2255	130	0.	*	19 MAR 0510	205	0.	*	19 MAR 1125	280	0.
18 MAR 1645	56	0.	*	18 MAR 2300	131	0.	*	19 MAR 0515	206	0.	*	19 MAR 1130	281	0.
18 MAR 1650	57	0.	*	18 MAR 2305	132	0.	*	19 MAR 0520	207	0.	*	19 MAR 1135	282	0.
18 MAR 1655	58	0.	*	18 MAR 2310	133	0.	*	19 MAR 0525	208	0.	*	19 MAR 1140	283	0.
18 MAR 1700	59	0.	*	18 MAR 2315	134	0.	*	19 MAR 0530	209	0.	*	19 MAR 1145	284	0.
18 MAR 1705	60	0.	*	18 MAR 2320	135	0.	*	19 MAR 0535	210	0.	*	19 MAR 1150	285	0.
18 MAR 1710	61	0.	*	18 MAR 2325	136	0.	*	19 MAR 0540	211	0.	*	19 MAR 1155	286	0.
18 MAR 1715	62	0.	*	18 MAR 2330	137	0.	*	19 MAR 0545	212	0.	*	19 MAR 1200	287	0.
18 MAR 1720	63	0.	*	18 MAR 2335	138	0.	*	19 MAR 0550	213	0.	*	19 MAR 1205	288	0.
18 MAR 1725	64	0.	*	18 MAR 2340	139	0.	*	19 MAR 0555	214	0.	*	19 MAR 1210	289	0.
18 MAR 1730	65	108.	*	18 MAR 2345	140	0.	*	19 MAR 0600	215	0.	*	19 MAR 1215	290	0.
18 MAR 1735	66	89.	*	18 MAR 2350	141	0.	*	19 MAR 0605	216	0.	*	19 MAR 1220	291	0.
18 MAR 1740	67	84.	*	18 MAR 2355	142	0.	*	19 MAR 0610	217	0.	*	19 MAR 1225	292	0.
18 MAR 1745	68	77.	*	19 MAR 0000	143	0.	*	19 MAR 0615	218	0.	*	19 MAR 1230	293	0.
18 MAR 1750	69	71.	*	19 MAR 0005	144	0.	*	19 MAR 0620	219	0.	*	19 MAR 1235	294	0.
18 MAR 1755	70	65.	*	19 MAR 0010	145	0.	*	19 MAR 0625	220	0.	*	19 MAR 1240	295	0.

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 18 MAR 1800   71      60.  *  19 MAR 0015  146      0.  *  19 MAR 0630  221      0.  *  19 MAR 1245  296      0.
 18 MAR 1805   72      55.  *  19 MAR 0020  147      0.  *  19 MAR 0635  222      0.  *  19 MAR 1250  297      0.
 18 MAR 1810   73      50.  *  19 MAR 0025  148      0.  *  19 MAR 0640  223      0.  *  19 MAR 1255  298      0.
 18 MAR 1815   74      46.  *  19 MAR 0030  149      0.  *  19 MAR 0645  224      0.  *  19 MAR 1300  299      0.
 18 MAR 1820   75      42.  *  19 MAR 0035  150      0.  *  19 MAR 0650  225      0.  *  19 MAR 1305  300      0.
                            *                            *                            *
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 PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                     6-HR       24-HR       72-HR     24.92-HR
 (CFS)       (HR)
                        (CFS)
   108.      5.33                    15.         4.          4.          4.
                      (INCHES)      .237        .237        .237        .237
                       (AC-FT)        7.          7.          7.          7.

                      CUMULATIVE AREA =     .57 SQ MI


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          **************
          *            *
146 KK    *     RTEE2  *     F
          *            *
          **************
                    ROUTE HYDROGRAPH TO SUB BASIN F

152 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          2  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL         0.  HYDROGRAPH PLOT SCALE

              HYDROGRAPH ROUTING DATA

 48 RS          STORAGE ROUTING
                     NSTPS          4  NUMBER OF SUBREACHES
                      ITYP       FLOW  TYPE OF INITIAL CONDITION
                    RSVRIC        .00  INITIAL CONDITION
                         X        .00 WORKING R AND D COEFFICIENT

149 RC          NORMAL DEPTH CHANNEL
                       ANL       .025  LEFT OVERBANK N-VALUE
                      ANCH       .015  MAIN CHANNEL N-VALUE
                       ANR       .025  RIGHT OVERBANK N-VALUE
                     RLNTH      5300.  REACH LENGTH
                       SEL      .0015  ENERGY SLOPE
                     ELMAX      103.0  MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

                                   CROSS-SECTION DATA
                        --- LEFT OVERBANK --- + ------ MAIN CHANNEL ------- + --- RIGHT OVERBANK ---
151 RY        ELEVATION   102.00    101.00    100.00    102.00    101.00    101.54    101.00    103.00
150 RX        DISTANCE    100.00    150.00    152.00    156.00    158.00    185.00    212.00    216.00

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COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	.01	.02	.05	.10	.15	.22	.40	1.03	2.13
OUTFLOW	.00	.03	.17	.49	1.06	1.92	3.12	3.18	8.28	20.27
ELEVATION	100.00	100.16	100.32	100.47	100.63	100.79	100.95	101.11	101.26	101.42
STORAGE	3.70	5.52	7.51	9.66	11.86	14.06	16.27	18.48	20.70	22.93
OUTFLOW	42.29	77.53	122.53	179.03	248.69	327.37	414.59	509.97	613.17	723.93
ELEVATION	101.58	101.74	101.89	102.05	102.21	102.37	102.53	102.68	102.84	103.00

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HYDROGRAPH AT STATION RTEE2

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DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
18	MAR	1210	1	0.	.0	100.0	*	18	MAR	2030	101	11.	.3	101.3	*	19	MAR	0450	201	0.	.0	100.0
18	MAR	1215	2	0.	.0	100.0	*	18	MAR	2035	102	10.	.3	101.3	*	19	MAR	0455	202	0.	.0	100.0
18	MAR	1220	3	0.	.0	100.0	*	18	MAR	2040	103	9.	.3	101.3	*	19	MAR	0500	203	0.	.0	100.0
18	MAR	1225	4	0.	.0	100.0	*	18	MAR	2045	104	8.	.3	101.3	*	19	MAR	0505	204	0.	.0	100.0
18	MAR	1230	5	0.	.0	100.0	*	18	MAR	2050	105	8.	.2	101.2	*	19	MAR	0510	205	0.	.0	100.0
18	MAR	1235	6	0.	.0	100.0	*	18	MAR	2055	106	7.	.2	101.2	*	19	MAR	0515	206	0.	.0	100.0
18	MAR	1240	7	0.	.0	100.0	*	18	MAR	2100	107	7.	.2	101.2	*	19	MAR	0520	207	0.	.0	100.0
18	MAR	1245	8	0.	.0	100.0	*	18	MAR	2105	108	6.	.2	101.2	*	19	MAR	0525	208	0.	.0	100.0
18	MAR	1250	9	0.	.0	100.0	*	18	MAR	2110	109	6.	.2	101.2	*	19	MAR	0530	209	0.	.0	100.0
18	MAR	1255	10	0.	.0	100.0	*	18	MAR	2115	110	5.	.2	101.2	*	19	MAR	0535	210	0.	.0	100.0
18	MAR	1300	11	0.	.0	100.0	*	18	MAR	2120	111	5.	.1	101.2	*	19	MAR	0540	211	0.	.0	100.0
18	MAR	1305	12	0.	.0	100.0	*	18	MAR	2125	112	4.	.1	101.1	*	19	MAR	0545	212	0.	.0	100.0
18	MAR	1310	13	0.	.0	100.0	*	18	MAR	2130	113	4.	.1	101.1	*	19	MAR	0550	213	0.	.0	100.0
18	MAR	1315	14	0.	.0	100.0	*	18	MAR	2135	114	4.	.1	101.1	*	19	MAR	0555	214	0.	.0	100.0
18	MAR	1320	15	0.	.0	100.0	*	18	MAR	2140	115	3.	.1	101.1	*	19	MAR	0600	215	0.	.0	100.0
18	MAR	1325	16	0.	.0	100.0	*	18	MAR	2145	116	3.	.1	101.0	*	19	MAR	0605	216	0.	.0	100.0
18	MAR	1330	17	0.	.0	100.0	*	18	MAR	2150	117	3.	.1	101.0	*	19	MAR	0610	217	0.	.0	100.0
18	MAR	1335	18	0.	.0	100.0	*	18	MAR	2155	118	3.	.0	100.9	*	19	MAR	0615	218	0.	.0	100.0
18	MAR	1340	19	0.	.0	100.0	*	18	MAR	2200	119	2.	.0	100.8	*	19	MAR	0620	219	0.	.0	100.0
18	MAR	1345	20	0.	.0	100.0	*	18	MAR	2205	120	1.	.0	100.7	*	19	MAR	0625	220	0.	.0	100.0
18	MAR	1350	21	0.	.0	100.0	*	18	MAR	2210	121	1.	.0	100.6	*	19	MAR	0630	221	0.	.0	100.0
18	MAR	1355	22	0.	.0	100.0	*	18	MAR	2215	122	1.	.0	100.5	*	19	MAR	0635	222	0.	.0	100.0
18	MAR	1400	23	0.	.0	100.0	*	18	MAR	2220	123	1.	.0	100.5	*	19	MAR	0640	223	0.	.0	100.0
18	MAR	1405	24	0.	.0	100.0	*	18	MAR	2225	124	0.	.0	100.4	*	19	MAR	0645	224	0.	.0	100.0
18	MAR	1410	25	0.	.0	100.0	*	18	MAR	2230	125	0.	.0	100.4	*	19	MAR	0650	225	0.	.0	100.0
18	MAR	1415	26	0.	.0	100.0	*	18	MAR	2235	126	0.	.0	100.4	*	19	MAR	0655	226	0.	.0	100.0
18	MAR	1420	27	0.	.0	100.0	*	18	MAR	2240	127	0.	.0	100.4	*	19	MAR	0700	227	0.	.0	100.0
18	MAR	1425	28	0.	.0	100.0	*	18	MAR	2245	128	0.	.0	100.3	*	19	MAR	0705	228	0.	.0	100.0
18	MAR	1430	29	0.	.0	100.0	*	18	MAR	2250	129	0.	.0	100.3	*	19	MAR	0710	229	0.	.0	100.0
18	MAR	1435	30	0.	.0	100.0	*	18	MAR	2255	130	0.	.0	100.3	*	19	MAR	0715	230	0.	.0	100.0
18	MAR	1440	31	0.	.0	100.0	*	18	MAR	2300	131	0.	.0	100.3	*	19	MAR	0720	231	0.	.0	100.0
18	MAR	1445	32	0.	.0	100.0	*	18	MAR	2305	132	0.	.0	100.3	*	19	MAR	0725	232	0.	.0	100.0
18	MAR	1450	33	0.	.0	100.0	*	18	MAR	2310	133	0.	.0	100.2	*	19	MAR	0730	233	0.	.0	100.0
18	MAR	1455	34	0.	.0	100.0	*	18	MAR	2315	134	0.	.0	100.2	*	19	MAR	0735	234	0.	.0	100.0
18	MAR	1500	35	0.	.0	100.0	*	18	MAR	2320	135	0.	.0	100.2	*	19	MAR	0740	235	0.	.0	100.0
18	MAR	1505	36	0.	.0	100.0	*	18	MAR	2325	136	0.	.0	100.2	*	19	MAR	0745	236	0.	.0	100.0
18	MAR	1510	37	0.	.0	100.0	*	18	MAR	2330	137	0.	.0	100.2	*	19	MAR	0750	237	0.	.0	100.0
18	MAR	1515	38	0.	.0	100.0	*	18	MAR	2335	138	0.	.0	100.2	*	19	MAR	0755	238	0.	.0	100.0

18 MAR	1520	39	0.	.0	100.0	*	18 MAR	2340	139	0.	.0	100.2	*	19 MAR	0800	239	0.	.0	100.0
18 MAR	1525	40	0.	.0	100.0	*	18 MAR	2345	140	0.	.0	100.2	*	19 MAR	0805	240	0.	.0	100.0
18 MAR	1530	41	0.	.0	100.0	*	18 MAR	2350	141	0.	.0	100.2	*	19 MAR	0810	241	0.	.0	100.0
18 MAR	1535	42	0.	.0	100.0	*	18 MAR	2355	142	0.	.0	100.2	*	19 MAR	0815	242	0.	.0	100.0
18 MAR	1540	43	0.	.0	100.0	*	19 MAR	0000	143	0.	.0	100.2	*	19 MAR	0820	243	0.	.0	100.0
18 MAR	1545	44	0.	.0	100.0	*	19 MAR	0005	144	0.	.0	100.2	*	19 MAR	0825	244	0.	.0	100.0
18 MAR	1550	45	0.	.0	100.0	*	19 MAR	0010	145	0.	.0	100.2	*	19 MAR	0830	245	0.	.0	100.0
18 MAR	1555	46	0.	.0	100.0	*	19 MAR	0015	146	0.	.0	100.1	*	19 MAR	0835	246	0.	.0	100.0
18 MAR	1600	47	0.	.0	100.0	*	19 MAR	0020	147	0.	.0	100.1	*	19 MAR	0840	247	0.	.0	100.0
18 MAR	1605	48	0.	.0	100.0	*	19 MAR	0025	148	0.	.0	100.1	*	19 MAR	0845	248	0.	.0	100.0
18 MAR	1610	49	0.	.0	100.0	*	19 MAR	0030	149	0.	.0	100.1	*	19 MAR	0850	249	0.	.0	100.0
18 MAR	1615	50	0.	.0	100.0	*	19 MAR	0035	150	0.	.0	100.1	*	19 MAR	0855	250	0.	.0	100.0
18 MAR	1620	51	0.	.0	100.0	*	19 MAR	0040	151	0.	.0	100.1	*	19 MAR	0900	251	0.	.0	100.0
18 MAR	1625	52	0.	.0	100.0	*	19 MAR	0045	152	0.	.0	100.1	*	19 MAR	0905	252	0.	.0	100.0
18 MAR	1630	53	0.	.0	100.0	*	19 MAR	0050	153	0.	.0	100.1	*	19 MAR	0910	253	0.	.0	100.0
18 MAR	1635	54	0.	.0	100.0	*	19 MAR	0055	154	0.	.0	100.1	*	19 MAR	0915	254	0.	.0	100.0
18 MAR	1640	55	0.	.0	100.0	*	19 MAR	0100	155	0.	.0	100.1	*	19 MAR	0920	255	0.	.0	100.0
18 MAR	1645	56	0.	.0	100.0	*	19 MAR	0105	156	0.	.0	100.1	*	19 MAR	0925	256	0.	.0	100.0
18 MAR	1650	57	0.	.0	100.0	*	19 MAR	0110	157	0.	.0	100.1	*	19 MAR	0930	257	0.	.0	100.0
18 MAR	1655	58	0.	.0	100.0	*	19 MAR	0115	158	0.	.0	100.1	*	19 MAR	0935	258	0.	.0	100.0
18 MAR	1700	59	0.	.0	100.0	*	19 MAR	0120	159	0.	.0	100.1	*	19 MAR	0940	259	0.	.0	100.0
18 MAR	1705	60	0.	.0	100.0	*	19 MAR	0125	160	0.	.0	100.1	*	19 MAR	0945	260	0.	.0	100.0
18 MAR	1710	61	0.	.0	100.0	*	19 MAR	0130	161	0.	.0	100.1	*	19 MAR	0950	261	0.	.0	100.0
18 MAR	1715	62	0.	.0	100.0	*	19 MAR	0135	162	0.	.0	100.1	*	19 MAR	0955	262	0.	.0	100.0
18 MAR	1720	63	0.	.0	100.0	*	19 MAR	0140	163	0.	.0	100.0	*	19 MAR	1000	263	0.	.0	100.0
18 MAR	1725	64	0.	.0	100.0	*	19 MAR	0145	164	0.	.0	100.0	*	19 MAR	1005	264	0.	.0	100.0
18 MAR	1730	65	0.	.0	100.0	*	19 MAR	0150	165	0.	.0	100.0	*	19 MAR	1010	265	0.	.0	100.0
18 MAR	1735	66	0.	.0	100.3	*	19 MAR	0155	166	0.	.0	100.0	*	19 MAR	1015	266	0.	.0	100.0
18 MAR	1740	67	1.	.0	100.5	*	19 MAR	0200	167	0.	.0	100.0	*	19 MAR	1020	267	0.	.0	100.0
18 MAR	1745	68	2.	.0	100.8	*	19 MAR	0205	168	0.	.0	100.0	*	19 MAR	1025	268	0.	.0	100.0
18 MAR	1750	69	3.	.1	101.1	*	19 MAR	0210	169	0.	.0	100.0	*	19 MAR	1030	269	0.	.0	100.0
18 MAR	1755	70	6.	.2	101.2	*	19 MAR	0215	170	0.	.0	100.0	*	19 MAR	1035	270	0.	.0	100.0
18 MAR	1800	71	11.	.3	101.3	*	19 MAR	0220	171	0.	.0	100.0	*	19 MAR	1040	271	0.	.0	100.0
18 MAR	1805	72	18.	.5	101.4	*	19 MAR	0225	172	0.	.0	100.0	*	19 MAR	1045	272	0.	.0	100.0
18 MAR	1810	73	27.	.7	101.5	*	19 MAR	0230	173	0.	.0	100.0	*	19 MAR	1050	273	0.	.0	100.0
18 MAR	1815	74	36.	.8	101.5	*	19 MAR	0235	174	0.	.0	100.0	*	19 MAR	1055	274	0.	.0	100.0
18 MAR	1820	75	42.	.9	101.6	*	19 MAR	0240	175	0.	.0	100.0	*	19 MAR	1100	275	0.	.0	100.0
18 MAR	1825	76	48.	1.0	101.6	*	19 MAR	0245	176	0.	.0	100.0	*	19 MAR	1105	276	0.	.0	100.0
18 MAR	1830	77	50.	1.0	101.6	*	19 MAR	0250	177	0.	.0	100.0	*	19 MAR	1110	277	0.	.0	100.0
18 MAR	1835	78	51.	1.0	101.6	*	19 MAR	0255	178	0.	.0	100.0	*	19 MAR	1115	278	0.	.0	100.0
18 MAR	1840	79	50.	1.0	101.6	*	19 MAR	0300	179	0.	.0	100.0	*	19 MAR	1120	279	0.	.0	100.0
18 MAR	1845	80	49.	1.0	101.6	*	19 MAR	0305	180	0.	.0	100.0	*	19 MAR	1125	280	0.	.0	100.0
18 MAR	1850	81	46.	1.0	101.6	*	19 MAR	0310	181	0.	.0	100.0	*	19 MAR	1130	281	0.	.0	100.0
18 MAR	1855	82	44.	.9	101.6	*	19 MAR	0315	182	0.	.0	100.0	*	19 MAR	1135	282	0.	.0	100.0
18 MAR	1900	83	42.	.9	101.6	*	19 MAR	0320	183	0.	.0	100.0	*	19 MAR	1140	283	0.	.0	100.0
18 MAR	1905	84	40.	.9	101.6	*	19 MAR	0325	184	0.	.0	100.0	*	19 MAR	1145	284	0.	.0	100.0
18 MAR	1910	85	38.	.9	101.5	*	19 MAR	0330	185	0.	.0	100.0	*	19 MAR	1150	285	0.	.0	100.0
18 MAR	1915	86	36.	.8	101.5	*	19 MAR	0335	186	0.	.0	100.0	*	19 MAR	1155	286	0.	.0	100.0
18 MAR	1920	87	34.	.8	101.5	*	19 MAR	0340	187	0.	.0	100.0	*	19 MAR	1200	287	0.	.0	100.0
18 MAR	1925	88	31.	.7	101.5	*	19 MAR	0345	188	0.	.0	100.0	*	19 MAR	1205	288	0.	.0	100.0
18 MAR	1930	89	29.	.7	101.5	*	19 MAR	0350	189	0.	.0	100.0	*	19 MAR	1210	289	0.	.0	100.0
18 MAR	1935	90	27.	.6	101.5	*	19 MAR	0355	190	0.	.0	100.0	*	19 MAR	1215	290	0.	.0	100.0
18 MAR	1940	91	25.	.6	101.5	*	19 MAR	0400	191	0.	.0	100.0	*	19 MAR	1220	291	0.	.0	100.0
18 MAR	1945	92	23.	.6	101.4	*	19 MAR	0405	192	0.	.0	100.0	*	19 MAR	1225	292	0.	.0	100.0
18 MAR	1950	93	21.	.5	101.4	*	19 MAR	0410	193	0.	.0	100.0	*	19 MAR	1230	293	0.	.0	100.0
18 MAR	1955	94	19.	.5	101.4	*	19 MAR	0415	194	0.	.0	100.0	*	19 MAR	1235	294	0.	.0	100.0
18 MAR	2000	95	18.	.5	101.4	*	19 MAR	0420	195	0.	.0	100.0	*	19 MAR	1240	295	0.	.0	100.0
18 MAR	2005	96	17.	.5	101.4	*	19 MAR	0425	196	0.	.0	100.0	*	19 MAR	1245	296	0.	.0	100.0

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18 MAR 2010  97     15.      .4   101.4 * 19 MAR 0430 197      0.       .0   100.0 * 19 MAR 1250 297      0.       .0   100.0
18 MAR 2015  98     14.      .4   101.3 * 19 MAR 0435 198      0.       .0   100.0 * 19 MAR 1255 298      0.       .0   100.0
18 MAR 2020  99     13.      .4   101.3 * 19 MAR 0440 199      0.       .0   100.0 * 19 MAR 1300 299      0.       .0   100.0
18 MAR 2025 100     12.      .3   101.3 * 19 MAR 0445 200      0.       .0   100.0 * 19 MAR 1305 300      0.       .0   100.0
                                        *                                             *
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 PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                     6-HR       24-HR       72-HR     24.92-HR
  (CFS)       (HR)
                          (CFS)
     51.      6.42                  15.         4.          4.          4.
                        (INCHES)   .237        .237        .237        .237
                         (AC-FT)     7.          7.          7.          7.

PEAK STORAGE   TIME                          MAXIMUM AVERAGE STORAGE
                                     6-HR       24-HR       72-HR     24.92-HR
 (AC-FT)      (HR)
      1.      6.42                   0.          0.          0.          0.

 PEAK STAGE    TIME                          MAXIMUM AVERAGE STAGE
                                     6-HR       24-HR       72-HR     24.92-HR
  (FEET)      (HR)
   101.62     6.42                101.06      100.28      100.27      100.27

                        CUMULATIVE AREA =     .57 SQ MI


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


          **************
          *            *
 153 KK   *     F      *
          *            *
          **************
                         SUB-BASIN F
                         6-HOUR RAINFALL, PATTERN NO. 2.10 WAS USED TO FIND TC & R FOR THIS BASIN
                         THIS BASIN USED RAINFALL REDUCTION FACTOR OF  .971
                           L =  .99  Kb = .051  Adj. Slope =  6.9

 163 KO          OUTPUT CONTROL VARIABLES
                       IPRNT          2  PRINT CONTROL
                       IPLOT          0  PLOT CONTROL
                       QSCAL         0.  HYDROGRAPH PLOT SCALE

                 SUBBASIN RUNOFF DATA

 158 BA          SUBBASIN CHARACTERISTICS
                       TAREA        .20  SUBBASIN AREA

                 PRECIPITATION DATA

  18 PB                STORM       2.91  BASIN TOTAL PRECIPITATION

  18 PI             INCREMENTAL PRECIPITATION PATTERN
```

.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00	.00	.01	.01	.01	.01	.01	.01	.03
.03	.03	.06	.06	.06	.08	.08	.08	.05	.05
.05	.02	.02	.02	.01	.01	.01	.00	.00	.00
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	.00								

159 LG GREEN AND AMPT LOSS RATE

STRTL	.50	STARTING LOSS
DTH	.15	MOISTURE DEFICIT
PSIF	7.10	WETTING FRONT SUCTION
XKSAT	.10	HYDRAULIC CONDUCTIVITY
RTIMP	.00	PERCENT IMPERVIOUS AREA

160 UC CLARK UNITGRAPH

TC	1.21	TIME OF CONCENTRATION
R	1.13	STORAGE COEFFICIENT

161 UA ACCUMULATED-AREA VS. TIME, 11 ORDINATES

.0	5.0	16.0	30.0	65.0	77.0	84.0	90.0	94.0	97.0
100.0									

***

UNIT HYDROGRAPH PARAMETERS

CLARK TC= 1.21 HR, R= 1.13 HR

SNYDER TP= .75 HR, CP= .41

UNIT HYDROGRAPH

79 END-OF-PERIOD ORDINATES

2.	7.	14.	22.	37.	56.	68.	71.	72.	72.
70.	68.	66.	64.	61.	57.	53.	49.	46.	43.
40.	37.	34.	32.	29.	27.	25.	24.	22.	20.
19.	18.	16.	15.	14.	13.	12.	11.	11.	10.
9.	8.	8.	7.	7.	6.	6.	5.	5.	5.
4.	4.	4.	3.	3.	3.	3.	3.	2.	2.
2.	2.	2.	2.	2.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	

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HYDROGRAPH AT STATION F

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DA MON HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q	*	DA MON HRMN	ORD	RAIN	LOSS	EXCESS	COMP Q
						*						
18 MAR 1210	1	.00	.00	.00	0.	*	19 MAR 0040	151	.00	.00	.00	0.
18 MAR 1215	2	.01	.01	.00	0.	*	19 MAR 0045	152	.00	.00	.00	0.
18 MAR 1220	3	.01	.01	.00	0.	*	19 MAR 0050	153	.00	.00	.00	0.
18 MAR 1225	4	.01	.01	.00	0.	*	19 MAR 0055	154	.00	.00	.00	0.
18 MAR 1230	5	.01	.01	.00	0.	*	19 MAR 0100	155	.00	.00	.00	0.
18 MAR 1235	6	.01	.01	.00	0.	*	19 MAR 0105	156	.00	.00	.00	0.
18 MAR 1240	7	.01	.01	.00	0.	*	19 MAR 0110	157	.00	.00	.00	0.
18 MAR 1245	8	.01	.01	.00	0.	*	19 MAR 0115	158	.00	.00	.00	0.
18 MAR 1250	9	.01	.01	.00	0.	*	19 MAR 0120	159	.00	.00	.00	0.

18 MAR 1255	10	.01	.01	.00	0.	*	19 MAR 0125	160	.00	.00	.00	0.
18 MAR 1300	11	.01	.01	.00	0.	*	19 MAR 0130	161	.00	.00	.00	0.
18 MAR 1305	12	.01	.01	.00	0.	*	19 MAR 0135	162	.00	.00	.00	0.
18 MAR 1310	13	.01	.01	.00	0.	*	19 MAR 0140	163	.00	.00	.00	0.
18 MAR 1315	14	.01	.01	.00	0.	*	19 MAR 0145	164	.00	.00	.00	0.
18 MAR 1320	15	.01	.01	.00	0.	*	19 MAR 0150	165	.00	.00	.00	0.
18 MAR 1325	16	.01	.01	.00	0.	*	19 MAR 0155	166	.00	.00	.00	0.
18 MAR 1330	17	.01	.01	.00	0.	*	19 MAR 0200	167	.00	.00	.00	0.
18 MAR 1335	18	.01	.01	.00	0.	*	19 MAR 0205	168	.00	.00	.00	0.
18 MAR 1340	19	.01	.01	.00	0.	*	19 MAR 0210	169	.00	.00	.00	0.
18 MAR 1345	20	.01	.01	.00	0.	*	19 MAR 0215	170	.00	.00	.00	0.
18 MAR 1350	21	.01	.01	.00	0.	*	19 MAR 0220	171	.00	.00	.00	0.
18 MAR 1355	22	.01	.01	.00	0.	*	19 MAR 0225	172	.00	.00	.00	0.
18 MAR 1400	23	.01	.01	.00	0.	*	19 MAR 0230	173	.00	.00	.00	0.
18 MAR 1405	24	.01	.01	.00	0.	*	19 MAR 0235	174	.00	.00	.00	0.
18 MAR 1410	25	.01	.01	.00	0.	*	19 MAR 0240	175	.00	.00	.00	0.
18 MAR 1415	26	.01	.01	.00	0.	*	19 MAR 0245	176	.00	.00	.00	0.
18 MAR 1420	27	.01	.01	.00	0.	*	19 MAR 0250	177	.00	.00	.00	0.
18 MAR 1425	28	.01	.01	.00	0.	*	19 MAR 0255	178	.00	.00	.00	0.
18 MAR 1430	29	.01	.01	.00	0.	*	19 MAR 0300	179	.00	.00	.00	0.
18 MAR 1435	30	.01	.01	.00	0.	*	19 MAR 0305	180	.00	.00	.00	0.
18 MAR 1440	31	.01	.01	.00	0.	*	19 MAR 0310	181	.00	.00	.00	0.
18 MAR 1445	32	.01	.01	.00	0.	*	19 MAR 0315	182	.00	.00	.00	0.
18 MAR 1450	33	.01	.01	.00	0.	*	19 MAR 0320	183	.00	.00	.00	0.
18 MAR 1455	34	.01	.01	.00	0.	*	19 MAR 0325	184	.00	.00	.00	0.
18 MAR 1500	35	.02	.02	.00	0.	*	19 MAR 0330	185	.00	.00	.00	0.
18 MAR 1505	36	.02	.02	.00	0.	*	19 MAR 0335	186	.00	.00	.00	0.
18 MAR 1510	37	.02	.02	.00	0.	*	19 MAR 0340	187	.00	.00	.00	0.
18 MAR 1515	38	.04	.04	.00	0.	*	19 MAR 0345	188	.00	.00	.00	0.
18 MAR 1520	39	.04	.04	.00	0.	*	19 MAR 0350	189	.00	.00	.00	0.
18 MAR 1525	40	.04	.04	.00	0.	*	19 MAR 0355	190	.00	.00	.00	0.
18 MAR 1530	41	.09	.09	.00	0.	*	19 MAR 0400	191	.00	.00	.00	0.
18 MAR 1535	42	.09	.08	.01	0.	*	19 MAR 0405	192	.00	.00	.00	0.
18 MAR 1540	43	.09	.05	.03	0.	*	19 MAR 0410	193	.00	.00	.00	0.
18 MAR 1545	44	.19	.04	.14	1.	*	19 MAR 0415	194	.00	.00	.00	0.
18 MAR 1550	45	.19	.04	.15	2.	*	19 MAR 0420	195	.00	.00	.00	0.
18 MAR 1555	46	.19	.04	.15	4.	*	19 MAR 0425	196	.00	.00	.00	0.
18 MAR 1600	47	.23	.03	.20	8.	*	19 MAR 0430	197	.00	.00	.00	0.
18 MAR 1605	48	.23	.03	.20	15.	*	19 MAR 0435	198	.00	.00	.00	0.
18 MAR 1610	49	.23	.03	.20	25.	*	19 MAR 0440	199	.00	.00	.00	0.
18 MAR 1615	50	.14	.03	.11	36.	*	19 MAR 0445	200	.00	.00	.00	0.
18 MAR 1620	51	.14	.03	.11	48.	*	19 MAR 0450	201	.00	.00	.00	0.
18 MAR 1625	52	.14	.03	.11	60.	*	19 MAR 0455	202	.00	.00	.00	0.
18 MAR 1630	53	.06	.02	.04	72.	*	19 MAR 0500	203	.00	.00	.00	0.
18 MAR 1635	54	.06	.02	.04	82.	*	19 MAR 0505	204	.00	.00	.00	0.
18 MAR 1640	55	.06	.02	.04	90.	*	19 MAR 0510	205	.00	.00	.00	0.
18 MAR 1645	56	.04	.02	.02	96.	*	19 MAR 0515	206	.00	.00	.00	0.
18 MAR 1650	57	.04	.02	.02	99.	*	19 MAR 0520	207	.00	.00	.00	0.
18 MAR 1655	58	.04	.02	.02	101.	*	19 MAR 0525	208	.00	.00	.00	0.
18 MAR 1700	59	.01	.01	.00	101.	*	19 MAR 0530	209	.00	.00	.00	0.
18 MAR 1705	60	.01	.01	.00	99.	*	19 MAR 0535	210	.00	.00	.00	0.
18 MAR 1710	61	.01	.01	.00	97.	*	19 MAR 0540	211	.00	.00	.00	0.
18 MAR 1715	62	.01	.01	.00	94.	*	19 MAR 0545	212	.00	.00	.00	0.
18 MAR 1720	63	.01	.01	.00	90.	*	19 MAR 0550	213	.00	.00	.00	0.
18 MAR 1725	64	.01	.01	.00	85.	*	19 MAR 0555	214	.00	.00	.00	0.
18 MAR 1730	65	.01	.01	.00	80.	*	19 MAR 0600	215	.00	.00	.00	0.
18 MAR 1735	66	.01	.01	.00	75.	*	19 MAR 0605	216	.00	.00	.00	0.
18 MAR 1740	67	.01	.01	.00	70.	*	19 MAR 0610	217	.00	.00	.00	0.

18 MAR 1745	68	.01	.01	.00	66.	*	19 MAR 0615	218	.00	.00	.00	0.
18 MAR 1750	69	.01	.01	.00	61.	*	19 MAR 0620	219	.00	.00	.00	0.
18 MAR 1755	70	.01	.01	.00	57.	*	19 MAR 0625	220	.00	.00	.00	0.
18 MAR 1800	71	.01	.01	.00	53.	*	19 MAR 0630	221	.00	.00	.00	0.
18 MAR 1805	72	.01	.01	.00	49.	*	19 MAR 0635	222	.00	.00	.00	0.
18 MAR 1810	73	.01	.01	.00	46.	*	19 MAR 0640	223	.00	.00	.00	0.
18 MAR 1815	74	.00	.00	.00	43.	*	19 MAR 0645	224	.00	.00	.00	0.
18 MAR 1820	75	.00	.00	.00	40.	*	19 MAR 0650	225	.00	.00	.00	0.
18 MAR 1825	76	.00	.00	.00	37.	*	19 MAR 0655	226	.00	.00	.00	0.
18 MAR 1830	77	.00	.00	.00	34.	*	19 MAR 0700	227	.00	.00	.00	0.
18 MAR 1835	78	.00	.00	.00	32.	*	19 MAR 0705	228	.00	.00	.00	0.
18 MAR 1840	79	.00	.00	.00	29.	*	19 MAR 0710	229	.00	.00	.00	0.
18 MAR 1845	80	.00	.00	.00	27.	*	19 MAR 0715	230	.00	.00	.00	0.
18 MAR 1850	81	.00	.00	.00	25.	*	19 MAR 0720	231	.00	.00	.00	0.
18 MAR 1855	82	.00	.00	.00	24.	*	19 MAR 0725	232	.00	.00	.00	0.
18 MAR 1900	83	.00	.00	.00	22.	*	19 MAR 0730	233	.00	.00	.00	0.
18 MAR 1905	84	.00	.00	.00	20.	*	19 MAR 0735	234	.00	.00	.00	0.
18 MAR 1910	85	.00	.00	.00	19.	*	19 MAR 0740	235	.00	.00	.00	0.
18 MAR 1915	86	.00	.00	.00	18.	*	19 MAR 0745	236	.00	.00	.00	0.
18 MAR 1920	87	.00	.00	.00	16.	*	19 MAR 0750	237	.00	.00	.00	0.
18 MAR 1925	88	.00	.00	.00	15.	*	19 MAR 0755	238	.00	.00	.00	0.
18 MAR 1930	89	.00	.00	.00	14.	*	19 MAR 0800	239	.00	.00	.00	0.
18 MAR 1935	90	.00	.00	.00	13.	*	19 MAR 0805	240	.00	.00	.00	0.
18 MAR 1940	91	.00	.00	.00	12.	*	19 MAR 0810	241	.00	.00	.00	0.
18 MAR 1945	92	.00	.00	.00	11.	*	19 MAR 0815	242	.00	.00	.00	0.
18 MAR 1950	93	.00	.00	.00	11.	*	19 MAR 0820	243	.00	.00	.00	0.
18 MAR 1955	94	.00	.00	.00	10.	*	19 MAR 0825	244	.00	.00	.00	0.
18 MAR 2000	95	.00	.00	.00	9.	*	19 MAR 0830	245	.00	.00	.00	0.
18 MAR 2005	96	.00	.00	.00	8.	*	19 MAR 0835	246	.00	.00	.00	0.
18 MAR 2010	97	.00	.00	.00	8.	*	19 MAR 0840	247	.00	.00	.00	0.
18 MAR 2015	98	.00	.00	.00	7.	*	19 MAR 0845	248	.00	.00	.00	0.
18 MAR 2020	99	.00	.00	.00	7.	*	19 MAR 0850	249	.00	.00	.00	0.
18 MAR 2025	100	.00	.00	.00	6.	*	19 MAR 0855	250	.00	.00	.00	0.
18 MAR 2030	101	.00	.00	.00	6.	*	19 MAR 0900	251	.00	.00	.00	0.
18 MAR 2035	102	.00	.00	.00	5.	*	19 MAR 0905	252	.00	.00	.00	0.
18 MAR 2040	103	.00	.00	.00	5.	*	19 MAR 0910	253	.00	.00	.00	0.
18 MAR 2045	104	.00	.00	.00	5.	*	19 MAR 0915	254	.00	.00	.00	0.
18 MAR 2050	105	.00	.00	.00	4.	*	19 MAR 0920	255	.00	.00	.00	0.
18 MAR 2055	106	.00	.00	.00	4.	*	19 MAR 0925	256	.00	.00	.00	0.
18 MAR 2100	107	.00	.00	.00	4.	*	19 MAR 0930	257	.00	.00	.00	0.
18 MAR 2105	108	.00	.00	.00	3.	*	19 MAR 0935	258	.00	.00	.00	0.
18 MAR 2110	109	.00	.00	.00	3.	*	19 MAR 0940	259	.00	.00	.00	0.
18 MAR 2115	110	.00	.00	.00	3.	*	19 MAR 0945	260	.00	.00	.00	0.
18 MAR 2120	111	.00	.00	.00	3.	*	19 MAR 0950	261	.00	.00	.00	0.
18 MAR 2125	112	.00	.00	.00	3.	*	19 MAR 0955	262	.00	.00	.00	0.
18 MAR 2130	113	.00	.00	.00	2.	*	19 MAR 1000	263	.00	.00	.00	0.
18 MAR 2135	114	.00	.00	.00	2.	*	19 MAR 1005	264	.00	.00	.00	0.
18 MAR 2140	115	.00	.00	.00	2.	*	19 MAR 1010	265	.00	.00	.00	0.
18 MAR 2145	116	.00	.00	.00	2.	*	19 MAR 1015	266	.00	.00	.00	0.
18 MAR 2150	117	.00	.00	.00	2.	*	19 MAR 1020	267	.00	.00	.00	0.
18 MAR 2155	118	.00	.00	.00	2.	*	19 MAR 1025	268	.00	.00	.00	0.
18 MAR 2200	119	.00	.00	.00	2.	*	19 MAR 1030	269	.00	.00	.00	0.
18 MAR 2205	120	.00	.00	.00	1.	*	19 MAR 1035	270	.00	.00	.00	0.
18 MAR 2210	121	.00	.00	.00	1.	*	19 MAR 1040	271	.00	.00	.00	0.
18 MAR 2215	122	.00	.00	.00	1.	*	19 MAR 1045	272	.00	.00	.00	0.
18 MAR 2220	123	.00	.00	.00	1.	*	19 MAR 1050	273	.00	.00	.00	0.
18 MAR 2225	124	.00	.00	.00	1.	*	19 MAR 1055	274	.00	.00	.00	0.
18 MAR 2230	125	.00	.00	.00	1.	*	19 MAR 1100	275	.00	.00	.00	0.

18 MAR 2235	126	.00	.00	.00	1.	*	19 MAR 1105	276	.00	.00	.00	0.
18 MAR 2240	127	.00	.00	.00	0.	*	19 MAR 1110	277	.00	.00	.00	0.
18 MAR 2245	128	.00	.00	.00	0.	*	19 MAR 1115	278	.00	.00	.00	0.
18 MAR 2250	129	.00	.00	.00	0.	*	19 MAR 1120	279	.00	.00	.00	0.
18 MAR 2255	130	.00	.00	.00	0.	*	19 MAR 1125	280	.00	.00	.00	0.
18 MAR 2300	131	.00	.00	.00	0.	*	19 MAR 1130	281	.00	.00	.00	0.
18 MAR 2305	132	.00	.00	.00	0.	*	19 MAR 1135	282	.00	.00	.00	0.
18 MAR 2310	133	.00	.00	.00	0.	*	19 MAR 1140	283	.00	.00	.00	0.
18 MAR 2315	134	.00	.00	.00	0.	*	19 MAR 1145	284	.00	.00	.00	0.
18 MAR 2320	135	.00	.00	.00	0.	*	19 MAR 1150	285	.00	.00	.00	0.
18 MAR 2325	136	.00	.00	.00	0.	*	19 MAR 1155	286	.00	.00	.00	0.
18 MAR 2330	137	.00	.00	.00	0.	*	19 MAR 1200	287	.00	.00	.00	0.
18 MAR 2335	138	.00	.00	.00	0.	*	19 MAR 1205	288	.00	.00	.00	0.
18 MAR 2340	139	.00	.00	.00	0.	*	19 MAR 1210	289	.00	.00	.00	0.
18 MAR 2345	140	.00	.00	.00	0.	*	19 MAR 1215	290	.00	.00	.00	0.
18 MAR 2350	141	.00	.00	.00	0.	*	19 MAR 1220	291	.00	.00	.00	0.
18 MAR 2355	142	.00	.00	.00	0.	*	19 MAR 1225	292	.00	.00	.00	0.
19 MAR 0000	143	.00	.00	.00	0.	*	19 MAR 1230	293	.00	.00	.00	0.
19 MAR 0005	144	.00	.00	.00	0.	*	19 MAR 1235	294	.00	.00	.00	0.
19 MAR 0010	145	.00	.00	.00	0.	*	19 MAR 1240	295	.00	.00	.00	0.
19 MAR 0015	146	.00	.00	.00	0.	*	19 MAR 1245	296	.00	.00	.00	0.
19 MAR 0020	147	.00	.00	.00	0.	*	19 MAR 1250	297	.00	.00	.00	0.
19 MAR 0025	148	.00	.00	.00	0.	*	19 MAR 1255	298	.00	.00	.00	0.
19 MAR 0030	149	.00	.00	.00	0.	*	19 MAR 1300	299	.00	.00	.00	0.
19 MAR 0035	150	.00	.00	.00	0.	*	19 MAR 1305	300	.00	.00	.00	0.
						*						

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TOTAL RAINFALL = 2.91, TOTAL LOSS = 1.33, TOTAL EXCESS = 1.58

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
101.	4.75		34.	9.	8.	8.
		(INCHES)	1.565	1.575	1.575	1.575
		(AC-FT)	17.	17.	17.	17.

CUMULATIVE AREA = .20 SQ MI

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          *            *
164 KK    *    RTEF    *
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ROUTE SUB BASIN F THROUGH RESERVOIR TO REMOVE DEVELOPED AREA STORAGE

171 KO OUTPUT CONTROL VARIABLES

IPRNT	2	PRINT CONTROL
IPLOT	0	PLOT CONTROL
QSCAL	0.	HYDROGRAPH PLOT SCALE

HYDROGRAPH ROUTING DATA

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166 RS        STORAGE ROUTING
                   NSTPS          1  NUMBER OF SUBREACHES
                    ITYP       STOR  TYPE OF INITIAL CONDITION
                  RSVRIC        .00  INITIAL CONDITION
                       X        .00 WORKING R AND D COEFFICIENT

167 SV          STORAGE         .0       2.0       4.0       6.0       6.8       8.0

168 SE        ELEVATION      100.00    101.00    102.00    103.00    104.00    105.00

169 SQ        DISCHARGE         0.        0.        0.        0.        0.      250.

170 SE        ELEVATION      100.00    101.00    102.00    103.00    104.00    105.00
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COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	2.00	4.00	6.00	6.83	8.00
OUTFLOW	.00	.00	.00	.00	.00	250.00
ELEVATION	100.00	101.00	102.00	103.00	104.00	105.00

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HYDROGRAPH AT STATION RTEF

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DA MON HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA MON HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA MON HRMN	ORD	OUTFLOW	STORAGE	STAGE
18 MAR 1210	1	0.	.0	100.0	*	18 MAR 2030	101	6.	6.9	104.0	*	19 MAR 0450	201	0.	6.8	104.0
18 MAR 1215	2	0.	.0	100.0	*	18 MAR 2035	102	6.	6.9	104.0	*	19 MAR 0455	202	0.	6.8	104.0
18 MAR 1220	3	0.	.0	100.0	*	18 MAR 2040	103	5.	6.9	104.0	*	19 MAR 0500	203	0.	6.8	104.0
18 MAR 1225	4	0.	.0	100.0	*	18 MAR 2045	104	5.	6.9	104.0	*	19 MAR 0505	204	0.	6.8	104.0
8 MAR 1230	5	0.	.0	100.0	*	18 MAR 2050	105	5.	6.9	104.0	*	19 MAR 0510	205	0.	6.8	104.0
8 MAR 1235	6	0.	.0	100.0	*	18 MAR 2055	106	4.	6.8	104.0	*	19 MAR 0515	206	0.	6.8	104.0
8 MAR 1240	7	0.	.0	100.0	*	18 MAR 2100	107	4.	6.8	104.0	*	19 MAR 0520	207	0.	6.8	104.0
8 MAR 1245	8	0.	.0	100.0	*	18 MAR 2105	108	4.	6.8	104.0	*	19 MAR 0525	208	0.	6.8	104.0
8 MAR 1250	9	0.	.0	100.0	*	18 MAR 2110	109	3.	6.8	104.0	*	19 MAR 0530	209	0.	6.8	104.0
8 MAR 1255	10	0.	.0	100.0	*	18 MAR 2115	110	3.	6.8	104.0	*	19 MAR 0535	210	0.	6.8	104.0
8 MAR 1300	11	0.	.0	100.0	*	18 MAR 2120	111	3.	6.8	104.0	*	19 MAR 0540	211	0.	6.8	104.0
18 MAR 1305	12	0.	.0	100.0	*	18 MAR 2125	112	3.	6.8	104.0	*	19 MAR 0545	212	0.	6.8	104.0
18 MAR 1310	13	0.	.0	100.0	*	18 MAR 2130	113	3.	6.8	104.0	*	19 MAR 0550	213	0.	6.8	104.0
18 MAR 1315	14	0.	.0	100.0	*	18 MAR 2135	114	2.	6.8	104.0	*	19 MAR 0555	214	0.	6.8	104.0
18 MAR 1320	15	0.	.0	100.0	*	18 MAR 2140	115	2.	6.8	104.0	*	19 MAR 0600	215	0.	6.8	104.0
18 MAR 1325	16	0.	.0	100.0	*	18 MAR 2145	116	2.	6.8	104.0	*	19 MAR 0605	216	0.	6.8	104.0
18 MAR 1330	17	0.	.0	100.0	*	18 MAR 2150	117	2.	6.8	104.0	*	19 MAR 0610	217	0.	6.8	104.0
18 MAR 1335	18	0.	.0	100.0	*	18 MAR 2155	118	2.	6.8	104.0	*	19 MAR 0615	218	0.	6.8	104.0
18 MAR 1340	19	0.	.0	100.0	*	18 MAR 2200	119	2.	6.8	104.0	*	19 MAR 0620	219	0.	6.8	104.0
18 MAR 1345	20	0.	.0	100.0	*	18 MAR 2205	120	2.	6.8	104.0	*	19 MAR 0625	220	0.	6.8	104.0
18 MAR 1350	21	0.	.0	100.0	*	18 MAR 2210	121	1.	6.8	104.0	*	19 MAR 0630	221	0.	6.8	104.0
18 MAR 1355	22	0.	.0	100.0	*	18 MAR 2215	122	1.	6.8	104.0	*	19 MAR 0635	222	0.	6.8	104.0
18 MAR 1400	23	0.	.0	100.0	*	18 MAR 2220	123	1.	6.8	104.0	*	19 MAR 0640	223	0.	6.8	104.0
18 MAR 1405	24	0.	.0	100.0	*	18 MAR 2225	124	1.	6.8	104.0	*	19 MAR 0645	224	0.	6.8	104.0
18 MAR 1410	25	0.	.0	100.0	*	18 MAR 2230	125	1.	6.8	104.0	*	19 MAR 0650	225	0.	6.8	104.0
18 MAR 1415	26	0.	.0	100.0	*	18 MAR 2235	126	1.	6.8	104.0	*	19 MAR 0655	226	0.	6.8	104.0

18 MAR	1420	27	0.	.0	100.0	*	18 MAR	2240	127	1.	6.8	104.0	*	19 MAR	0700	227	0.	6.8	104.0
18 MAR	1425	28	0.	.0	100.0	*	18 MAR	2245	128	0.	6.8	104.0	*	19 MAR	0705	228	0.	6.8	104.0
18 MAR	1430	29	0.	.0	100.0	*	18 MAR	2250	129	0.	6.8	104.0	*	19 MAR	0710	229	0.	6.8	104.0
18 MAR	1435	30	0.	.0	100.0	*	18 MAR	2255	130	0.	6.8	104.0	*	19 MAR	0715	230	0.	6.8	104.0
18 MAR	1440	31	0.	.0	100.0	*	18 MAR	2300	131	0.	6.8	104.0	*	19 MAR	0720	231	0.	6.8	104.0
18 MAR	1445	32	0.	.0	100.0	*	18 MAR	2305	132	0.	6.8	104.0	*	19 MAR	0725	232	0.	6.8	104.0
18 MAR	1450	33	0.	.0	100.0	*	18 MAR	2310	133	0.	6.8	104.0	*	19 MAR	0730	233	0.	6.8	104.0
18 MAR	1455	34	0.	.0	100.0	*	18 MAR	2315	134	0.	6.8	104.0	*	19 MAR	0735	234	0.	6.8	104.0
18 MAR	1500	35	0.	.0	100.0	*	18 MAR	2320	135	0.	6.8	104.0	*	19 MAR	0740	235	0.	6.8	104.0
18 MAR	1505	36	0.	.0	100.0	*	18 MAR	2325	136	0.	6.8	104.0	*	19 MAR	0745	236	0.	6.8	104.0
18 MAR	1510	37	0.	.0	100.0	*	18 MAR	2330	137	0.	6.8	104.0	*	19 MAR	0750	237	0.	6.8	104.0
18 MAR	1515	38	0.	.0	100.0	*	18 MAR	2335	138	0.	6.8	104.0	*	19 MAR	0755	238	0.	6.8	104.0
18 MAR	1520	39	0.	.0	100.0	*	18 MAR	2340	139	0.	6.8	104.0	*	19 MAR	0800	239	0.	6.8	104.0
18 MAR	1525	40	0.	.0	100.0	*	18 MAR	2345	140	0.	6.8	104.0	*	19 MAR	0805	240	0.	6.8	104.0
18 MAR	1530	41	0.	.0	100.0	*	18 MAR	2350	141	0.	6.8	104.0	*	19 MAR	0810	241	0.	6.8	104.0
18 MAR	1535	42	0.	.0	100.0	*	18 MAR	2355	142	0.	6.8	104.0	*	19 MAR	0815	242	0.	6.8	104.0
18 MAR	1540	43	0.	.0	100.0	*	19 MAR	0000	143	0.	6.8	104.0	*	19 MAR	0820	243	0.	6.8	104.0
18 MAR	1545	44	0.	.0	100.0	*	19 MAR	0005	144	0.	6.8	104.0	*	19 MAR	0825	244	0.	6.8	104.0
18 MAR	1550	45	0.	.0	100.0	*	19 MAR	0010	145	0.	6.8	104.0	*	19 MAR	0830	245	0.	6.8	104.0
18 MAR	1555	46	0.	.0	100.0	*	19 MAR	0015	146	0.	6.8	104.0	*	19 MAR	0835	246	0.	6.8	104.0
18 MAR	1600	47	0.	.1	100.0	*	19 MAR	0020	147	0.	6.8	104.0	*	19 MAR	0840	247	0.	6.8	104.0
18 MAR	1605	48	0.	.2	100.1	*	19 MAR	0025	148	0.	6.8	104.0	*	19 MAR	0845	248	0.	6.8	104.0
18 MAR	1610	49	0.	.3	100.1	*	19 MAR	0030	149	0.	6.8	104.0	*	19 MAR	0850	249	0.	6.8	104.0
18 MAR	1615	50	0.	.5	100.3	*	19 MAR	0035	150	0.	6.8	104.0	*	19 MAR	0855	250	0.	6.8	104.0
18 MAR	1620	51	0.	.8	100.4	*	19 MAR	0040	151	0.	6.8	104.0	*	19 MAR	0900	251	0.	6.8	104.0
18 MAR	1625	52	0.	1.2	100.6	*	19 MAR	0045	152	0.	6.8	104.0	*	19 MAR	0905	252	0.	6.8	104.0
18 MAR	1630	53	0.	1.6	100.8	*	19 MAR	0050	153	0.	6.8	104.0	*	19 MAR	0910	253	0.	6.8	104.0
18 MAR	1635	54	0.	2.1	101.1	*	19 MAR	0055	154	0.	6.8	104.0	*	19 MAR	0915	254	0.	6.8	104.0
18 MAR	1640	55	0.	2.7	101.4	*	19 MAR	0100	155	0.	6.8	104.0	*	19 MAR	0920	255	0.	6.8	104.0
18 MAR	1645	56	0.	3.4	101.7	*	19 MAR	0105	156	0.	6.8	104.0	*	19 MAR	0925	256	0.	6.8	104.0
18 MAR	1650	57	0.	4.1	102.0	*	19 MAR	0110	157	0.	6.8	104.0	*	19 MAR	0930	257	0.	6.8	104.0
18 MAR	1655	58	0.	4.7	102.4	*	19 MAR	0115	158	0.	6.8	104.0	*	19 MAR	0935	258	0.	6.8	104.0
18 MAR	1700	59	0.	5.4	102.7	*	19 MAR	0120	159	0.	6.8	104.0	*	19 MAR	0940	259	0.	6.8	104.0
18 MAR	1705	60	0.	6.1	103.2	*	19 MAR	0125	160	0.	6.8	104.0	*	19 MAR	0945	260	0.	6.8	104.0
18 MAR	1710	61	0.	6.8	104.0	*	19 MAR	0130	161	0.	6.8	104.0	*	19 MAR	0950	261	0.	6.8	104.0
18 MAR	1715	62	78.	7.2	104.3	*	19 MAR	0135	162	0.	6.8	104.0	*	19 MAR	0955	262	0.	6.8	104.0
18 MAR	1720	63	89.	7.2	104.4	*	19 MAR	0140	163	0.	6.8	104.0	*	19 MAR	1000	263	0.	6.8	104.0
18 MAR	1725	64	88.	7.2	104.4	*	19 MAR	0145	164	0.	6.8	104.0	*	19 MAR	1005	264	0.	6.8	104.0
18 MAR	1730	65	83.	7.2	104.3	*	19 MAR	0150	165	0.	6.8	104.0	*	19 MAR	1010	265	0.	6.8	104.0
18 MAR	1735	66	79.	7.2	104.3	*	19 MAR	0155	166	0.	6.8	104.0	*	19 MAR	1015	266	0.	6.8	104.0
18 MAR	1740	67	74.	7.2	104.3	*	19 MAR	0200	167	0.	6.8	104.0	*	19 MAR	1020	267	0.	6.8	104.0
18 MAR	1745	68	69.	7.2	104.3	*	19 MAR	0205	168	0.	6.8	104.0	*	19 MAR	1025	268	0.	6.8	104.0
18 MAR	1750	69	64.	7.1	104.3	*	19 MAR	0210	169	0.	6.8	104.0	*	19 MAR	1030	269	0.	6.8	104.0
18 MAR	1755	70	60.	7.1	104.2	*	19 MAR	0215	170	0.	6.8	104.0	*	19 MAR	1035	270	0.	6.8	104.0
18 MAR	1800	71	56.	7.1	104.2	*	19 MAR	0220	171	0.	6.8	104.0	*	19 MAR	1040	271	0.	6.8	104.0
18 MAR	1805	72	52.	7.1	104.2	*	19 MAR	0225	172	0.	6.8	104.0	*	19 MAR	1045	272	0.	6.8	104.0
18 MAR	1810	73	48.	7.1	104.2	*	19 MAR	0230	173	0.	6.8	104.0	*	19 MAR	1050	273	0.	6.8	104.0
18 MAR	1815	74	45.	7.0	104.2	*	19 MAR	0235	174	0.	6.8	104.0	*	19 MAR	1055	274	0.	6.8	104.0
18 MAR	1820	75	42.	7.0	104.2	*	19 MAR	0240	175	0.	6.8	104.0	*	19 MAR	1100	275	0.	6.8	104.0
18 MAR	1825	76	39.	7.0	104.2	*	19 MAR	0245	176	0.	6.8	104.0	*	19 MAR	1105	276	0.	6.8	104.0
18 MAR	1830	77	36.	7.0	104.1	*	19 MAR	0250	177	0.	6.8	104.0	*	19 MAR	1110	277	0.	6.8	104.0
18 MAR	1835	78	33.	7.0	104.1	*	19 MAR	0255	178	0.	6.8	104.0	*	19 MAR	1115	278	0.	6.8	104.0
18 MAR	1840	79	31.	7.0	104.1	*	19 MAR	0300	179	0.	6.8	104.0	*	19 MAR	1120	279	0.	6.8	104.0
18 MAR	1845	80	29.	7.0	104.1	*	19 MAR	0305	180	0.	6.8	104.0	*	19 MAR	1125	280	0.	6.8	104.0
18 MAR	1850	81	27.	7.0	104.1	*	19 MAR	0310	181	0.	6.8	104.0	*	19 MAR	1130	281	0.	6.8	104.0
18 MAR	1855	82	25.	6.9	104.1	*	19 MAR	0315	182	0.	6.8	104.0	*	19 MAR	1135	282	0.	6.8	104.0
18 MAR	1900	83	23.	6.9	104.1	*	19 MAR	0320	183	0.	6.8	104.0	*	19 MAR	1140	283	0.	6.8	104.0
18 MAR	1905	84	21.	6.9	104.1	*	19 MAR	0325	184	0.	6.8	104.0	*	19 MAR	1145	284	0.	6.8	104.0

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18 MAR 1910  85      20.      6.9   104.1 * 19 MAR 0330 185      0.      6.8   104.0 * 19 MAR 1150 285      0.      6.8   104.0
18 MAR 1915  86      19.      6.9   104.1 * 19 MAR 0335 186      0.      6.8   104.0 * 19 MAR 1155 286      0.      6.8   104.0
18 MAR 1920  87      17.      6.9   104.1 * 19 MAR 0340 187      0.      6.8   104.0 * 19 MAR 1200 287      0.      6.8   104.0
18 MAR 1925  88      16.      6.9   104.1 * 19 MAR 0345 188      0.      6.8   104.0 * 19 MAR 1205 288      0.      6.8   104.0
18 MAR 1930  89      15.      6.9   104.1 * 19 MAR 0350 189      0.      6.8   104.0 * 19 MAR 1210 289      0.      6.8   104.0
18 MAR 1935  90      14.      6.9   104.1 * 19 MAR 0355 190      0.      6.8   104.0 * 19 MAR 1215 290      0.      6.8   104.0
18 MAR 1940  91      13.      6.9   104.1 * 19 MAR 0400 191      0.      6.8   104.0 * 19 MAR 1220 291      0.      6.8   104.0
18 MAR 1945  92      12.      6.9   104.0 * 19 MAR 0405 192      0.      6.8   104.0 * 19 MAR 1225 292      0.      6.8   104.0
18 MAR 1950  93      11.      6.9   104.0 * 19 MAR 0410 193      0.      6.8   104.0 * 19 MAR 1230 293      0.      6.8   104.0
18 MAR 1955  94      10.      6.9   104.0 * 19 MAR 0415 194      0.      6.8   104.0 * 19 MAR 1235 294      0.      6.8   104.0
18 MAR 2000  95      10.      6.9   104.0 * 19 MAR 0420 195      0.      6.8   104.0 * 19 MAR 1240 295      0.      6.8   104.0
18 MAR 2005  96       9.      6.9   104.0 * 19 MAR 0425 196      0.      6.8   104.0 * 19 MAR 1245 296      0.      6.8   104.0
18 MAR 2010  97       8.      6.9   104.0 * 19 MAR 0430 197      0.      6.8   104.0 * 19 MAR 1250 297      0.      6.8   104.0
18 MAR 2015  98       8.      6.9   104.0 * 19 MAR 0435 198      0.      6.8   104.0 * 19 MAR 1255 298      0.      6.8   104.0
18 MAR 2020  99       7.      6.9   104.0 * 19 MAR 0440 199      0.      6.8   104.0 * 19 MAR 1300 299      0.      6.8   104.0
18 MAR 2025 100       7.      6.9   104.0 * 19 MAR 0445 200      0.      6.8   104.0 * 19 MAR 1305 300      0.      6.8   104.0
                                          *                                            *
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 PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                     6-HR       24-HR       72-HR     24.92-HR
  (CFS)       (HR)
                          (CFS)
    89.       5.17                   20.         5.          5.          5.
                        (INCHES)    .938        .938        .938        .938
                         (AC-FT)     10.         10.         10.         10.

PEAK STORAGE   TIME                        MAXIMUM AVERAGE STORAGE
                                     6-HR       24-HR       72-HR     24.92-HR
 (AC-FT)      (HR)
      7.      5.17                    7.          6.          6.          6.

 PEAK STAGE    TIME                          MAXIMUM AVERAGE STAGE
                                     6-HR       24-HR       72-HR     24.92-HR
  (FEET)      (HR)
  104.36      5.17                 104.08      103.40      103.28      103.28

                        CUMULATIVE AREA =     .20 SQ MI


* *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


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          *            *
172 KK    *     COMBI  *     NEALL2F
          *            *
          **************
                         COMBINE HYDROGRAPHS E & F WITH PREVIOUS

175 KO          OUTPUT CONTROL VARIABLES
                      IPRNT          2  PRINT CONTROL
                      IPLOT          0  PLOT CONTROL
                      QSCAL         0.  HYDROGRAPH PLOT SCALE

174 HC          HYDROGRAPH COMBINATION
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ICOMP 3 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION COMBI
SUM OF 3 HYDROGRAPHS

DA MON HRMN	ORD	FLOW	DA MON HRMN	ORD	FLOW	DA MON HRMN	ORD	FLOW	DA MON HRMN	ORD	FLOW
18 MAR 1210	1	0.	18 MAR 1825	76	816.	19 MAR 0040	151	64.	19 MAR 0655	226	7.
18 MAR 1215	2	0.	18 MAR 1830	77	810.	19 MAR 0045	152	63.	19 MAR 0700	227	7.
18 MAR 1220	3	0.	18 MAR 1835	78	815.	19 MAR 0050	153	61.	19 MAR 0705	228	7.
18 MAR 1225	4	0.	18 MAR 1840	79	831.	19 MAR 0055	154	60.	19 MAR 0710	229	7.
18 MAR 1230	5	0.	18 MAR 1845	80	852.	19 MAR 0100	155	58.	19 MAR 0715	230	6.
18 MAR 1235	6	0.	18 MAR 1850	81	875.	19 MAR 0105	156	57.	19 MAR 0720	231	6.
18 MAR 1240	7	0.	18 MAR 1855	82	893.	19 MAR 0110	157	55.	19 MAR 0725	232	6.
18 MAR 1245	8	0.	18 MAR 1900	83	901.	19 MAR 0115	158	54.	19 MAR 0730	233	6.
18 MAR 1250	9	0.	18 MAR 1905	84	898.	19 MAR 0120	159	52.	19 MAR 0735	234	6.
18 MAR 1255	10	0.	18 MAR 1910	85	886.	19 MAR 0125	160	51.	19 MAR 0740	235	6.
18 MAR 1300	11	0.	18 MAR 1915	86	866.	19 MAR 0130	161	49.	19 MAR 0745	236	5.
18 MAR 1305	12	0.	18 MAR 1920	87	840.	19 MAR 0135	162	48.	19 MAR 0750	237	5.
18 MAR 1310	13	0.	18 MAR 1925	88	811.	19 MAR 0140	163	47.	19 MAR 0755	238	5.
18 MAR 1315	14	0.	18 MAR 1930	89	779.	19 MAR 0145	164	45.	19 MAR 0800	239	5.
18 MAR 1320	15	0.	18 MAR 1935	90	748.	19 MAR 0150	165	44.	19 MAR 0805	240	5.
18 MAR 1325	16	0.	18 MAR 1940	91	715.	19 MAR 0155	166	43.	19 MAR 0810	241	5.
18 MAR 1330	17	0.	18 MAR 1945	92	681.	19 MAR 0200	167	42.	19 MAR 0815	242	5.
18 MAR 1335	18	0.	18 MAR 1950	93	648.	19 MAR 0205	168	41.	19 MAR 0820	243	5.
18 MAR 1340	19	0.	18 MAR 1955	94	615.	19 MAR 0210	169	40.	19 MAR 0825	244	5.
18 MAR 1345	20	0.	18 MAR 2000	95	583.	19 MAR 0215	170	39.	19 MAR 0830	245	5.
18 MAR 1350	21	0.	18 MAR 2005	96	555.	19 MAR 0220	171	39.	19 MAR 0835	246	4.
18 MAR 1355	22	0.	18 MAR 2010	97	527.	19 MAR 0225	172	38.	19 MAR 0840	247	4.
18 MAR 1400	23	0.	18 MAR 2015	98	499.	19 MAR 0230	173	37.	19 MAR 0845	248	4.
18 MAR 1405	24	0.	18 MAR 2020	99	471.	19 MAR 0235	174	36.	19 MAR 0850	249	4.
18 MAR 1410	25	0.	18 MAR 2025	100	445.	19 MAR 0240	175	36.	19 MAR 0855	250	4.
18 MAR 1415	26	0.	18 MAR 2030	101	420.	19 MAR 0245	176	35.	19 MAR 0900	251	4.
18 MAR 1420	27	0.	18 MAR 2035	102	398.	19 MAR 0250	177	34.	19 MAR 0905	252	4.
18 MAR 1425	28	0.	18 MAR 2040	103	378.	19 MAR 0255	178	33.	19 MAR 0910	253	3.
18 MAR 1430	29	0.	18 MAR 2045	104	358.	19 MAR 0300	179	32.	19 MAR 0915	254	3.
18 MAR 1435	30	1.	18 MAR 2050	105	338.	19 MAR 0305	180	32.	19 MAR 0920	255	3.
18 MAR 1440	31	1.	18 MAR 2055	106	320.	19 MAR 0310	181	31.	19 MAR 0925	256	3.
18 MAR 1445	32	1.	18 MAR 2100	107	302.	19 MAR 0315	182	30.	19 MAR 0930	257	3.
18 MAR 1450	33	1.	18 MAR 2105	108	286.	19 MAR 0320	183	30.	19 MAR 0935	258	2.
18 MAR 1455	34	1.	18 MAR 2110	109	270.	19 MAR 0325	184	29.	19 MAR 0940	259	2.
18 MAR 1500	35	1.	18 MAR 2115	110	258.	19 MAR 0330	185	28.	19 MAR 0945	260	2.
18 MAR 1505	36	1.	18 MAR 2120	111	245.	19 MAR 0335	186	27.	19 MAR 0950	261	2.
18 MAR 1510	37	1.	18 MAR 2125	112	233.	19 MAR 0340	187	27.	19 MAR 0955	262	2.
18 MAR 1515	38	2.	18 MAR 2130	113	221.	19 MAR 0345	188	26.	19 MAR 1000	263	2.
18 MAR 1520	39	2.	18 MAR 2135	114	210.	19 MAR 0350	189	25.	19 MAR 1005	264	1.
18 MAR 1525	40	2.	18 MAR 2140	115	199.	19 MAR 0355	190	24.	19 MAR 1010	265	1.
18 MAR 1530	41	2.	18 MAR 2145	116	189.	19 MAR 0400	191	23.	19 MAR 1015	266	1.
18 MAR 1535	42	2.	18 MAR 2150	117	180.	19 MAR 0405	192	23.	19 MAR 1020	267	1.
18 MAR 1540	43	2.	18 MAR 2155	118	172.	19 MAR 0410	193	22.	19 MAR 1025	268	1.
18 MAR 1545	44	2.	18 MAR 2200	119	164.	19 MAR 0415	194	21.	19 MAR 1030	269	1.
18 MAR 1550	45	2.	18 MAR 2205	120	156.	19 MAR 0420	195	20.	19 MAR 1035	270	1.

18 MAR 1555	46	2.	*	18 MAR 2210	121	150.	*	19 MAR 0425	196	19.	*	19 MAR 1040	271	1.
18 MAR 1600	47	2.	*	18 MAR 2215	122	144.	*	19 MAR 0430	197	19.	*	19 MAR 1045	272	1.
18 MAR 1605	48	3.	*	18 MAR 2220	123	138.	*	19 MAR 0435	198	18.	*	19 MAR 1050	273	1.
18 MAR 1610	49	3.	*	18 MAR 2225	124	133.	*	19 MAR 0440	199	18.	*	19 MAR 1055	274	1.
18 MAR 1615	50	3.	*	18 MAR 2230	125	128.	*	19 MAR 0445	200	17.	*	19 MAR 1100	275	1.
18 MAR 1620	51	4.	*	18 MAR 2235	126	123.	*	19 MAR 0450	201	17.	*	19 MAR 1105	276	1.
18 MAR 1625	52	6.	*	18 MAR 2240	127	119.	*	19 MAR 0455	202	16.	*	19 MAR 1110	277	1.
18 MAR 1630	53	11.	*	18 MAR 2245	128	115.	*	19 MAR 0500	203	16.	*	19 MAR 1115	278	1.
18 MAR 1635	54	25.	*	18 MAR 2250	129	112.	*	19 MAR 0505	204	15.	*	19 MAR 1120	279	1.
18 MAR 1640	55	54.	*	18 MAR 2255	130	108.	*	19 MAR 0510	205	15.	*	19 MAR 1125	280	0.
18 MAR 1645	56	108.	*	18 MAR 2300	131	105.	*	19 MAR 0515	206	15.	*	19 MAR 1130	281	0.
18 MAR 1650	57	188.	*	18 MAR 2305	132	102.	*	19 MAR 0520	207	14.	*	19 MAR 1135	282	0.
18 MAR 1655	58	282.	*	18 MAR 2310	133	99.	*	19 MAR 0525	208	14.	*	19 MAR 1140	283	0.
18 MAR 1700	59	381.	*	18 MAR 2315	134	96.	*	19 MAR 0530	209	13.	*	19 MAR 1145	284	0.
18 MAR 1705	60	478.	*	18 MAR 2320	135	93.	*	19 MAR 0535	210	13.	*	19 MAR 1150	285	0.
18 MAR 1710	61	562.	*	18 MAR 2325	136	91.	*	19 MAR 0540	211	13.	*	19 MAR 1155	286	0.
18 MAR 1715	62	714.	*	18 MAR 2330	137	88.	*	19 MAR 0545	212	12.	*	19 MAR 1200	287	0.
18 MAR 1720	63	782.	*	18 MAR 2335	138	86.	*	19 MAR 0550	213	12.	*	19 MAR 1205	288	0.
18 MAR 1725	64	818.	*	18 MAR 2340	139	84.	*	19 MAR 0555	214	11.	*	19 MAR 1210	289	0.
18 MAR 1730	65	832.	*	18 MAR 2345	140	82.	*	19 MAR 0600	215	11.	*	19 MAR 1215	290	0.
18 MAR 1735	66	827.	*	18 MAR 2350	141	80.	*	19 MAR 0605	216	11.	*	19 MAR 1220	291	0.
18 MAR 1740	67	809.	*	18 MAR 2355	142	78.	*	19 MAR 0610	217	10.	*	19 MAR 1225	292	0.
18 MAR 1745	68	782.	*	19 MAR 0000	143	77.	*	19 MAR 0615	218	10.	*	19 MAR 1230	293	0.
18 MAR 1750	69	875.	*	19 MAR 0005	144	75.	*	19 MAR 0620	219	9.	*	19 MAR 1235	294	0.
18 MAR 1755	70	1006.	*	19 MAR 0010	145	73.	*	19 MAR 0625	220	9.	*	19 MAR 1240	295	0.
18 MAR 1800	71	991.	*	19 MAR 0015	146	72.	*	19 MAR 0630	221	9.	*	19 MAR 1245	296	0.
18 MAR 1805	72	939.	*	19 MAR 0020	147	70.	*	19 MAR 0635	222	8.	*	19 MAR 1250	297	0.
18 MAR 1810	73	900.	*	19 MAR 0025	148	69.	*	19 MAR 0640	223	8.	*	19 MAR 1255	298	0.
18 MAR 1815	74	863.	*	19 MAR 0030	149	67.	*	19 MAR 0645	224	8.	*	19 MAR 1300	299	0.
18 MAR 1820	75	834.	*	19 MAR 0035	150	66.	*	19 MAR 0650	225	8.	*	19 MAR 1305	300	0.
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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
1006.	5.75		536.	149.	144.	144.
		(INCHES)	.065	.072	.072	.072
		(AC-FT)	266.	296.	296.	296.

CUMULATIVE AREA = 76.76 SQ MI

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          *            *
176 KK    *     REMF   *
          *            *
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DIVERT FLOW TO 115TH STREET SOUTH FROM F

181 KO OUTPUT CONTROL VARIABLES

IPRNT 2 PRINT CONTROL

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                IPLOT          0  PLOT CONTROL
                QSCAL         0.  HYDROGRAPH PLOT SCALE

DT          DIVERSION
                ISTAD      DIVF   DIVERSION HYDROGRAPH IDENTIFICATION

DI             INFLOW       .00     12.53     21.41     51.01     99.53    166.81    265.04    402.80    582.53

DQ       DIVERTED FLOW      .00       .00       .13      2.05      8.89     23.21     61.68    117.16    185.80

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DIVERSION HYDROGRAPH DIVF

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DA MON HRMN	ORD	FLOW	*	DA MON HRMN	ORD	FLOW	*	DA MON HRMN	ORD	FLOW	*	DA MON HRMN	ORD	FLOW
18 MAR 1210	1	0.	*	18 MAR 1825	76	275.	*	19 MAR 0040	151	4.	*	19 MAR 0655	226	0.
18 MAR 1215	2	0.	*	18 MAR 1830	77	273.	*	19 MAR 0045	152	4.	*	19 MAR 0700	227	0.
18 MAR 1220	3	0.	*	18 MAR 1835	78	275.	*	19 MAR 0050	153	3.	*	19 MAR 0705	228	0.
18 MAR 1225	4	0.	*	18 MAR 1840	79	281.	*	19 MAR 0055	154	3.	*	19 MAR 0710	229	0.
18 MAR 1230	5	0.	*	18 MAR 1845	80	289.	*	19 MAR 0100	155	3.	*	19 MAR 0715	230	0.
18 MAR 1235	6	0.	*	18 MAR 1850	81	297.	*	19 MAR 0105	156	3.	*	19 MAR 0720	231	0.
18 MAR 1240	7	0.	*	18 MAR 1855	82	304.	*	19 MAR 0110	157	3.	*	19 MAR 0725	232	0.
18 MAR 1245	8	0.	*	18 MAR 1900	83	307.	*	19 MAR 0115	158	2.	*	19 MAR 0730	233	0.
18 MAR 1250	9	0.	*	18 MAR 1905	84	306.	*	19 MAR 0120	159	2.	*	19 MAR 0735	234	0.
18 MAR 1255	10	0.	*	18 MAR 1910	85	302.	*	19 MAR 0125	160	2.	*	19 MAR 0740	235	0.
18 MAR 1300	11	0.	*	18 MAR 1915	86	294.	*	19 MAR 0130	161	2.	*	19 MAR 0745	236	0.
18 MAR 1305	12	0.	*	18 MAR 1920	87	284.	*	19 MAR 0135	162	2.	*	19 MAR 0750	237	0.
18 MAR 1310	13	0.	*	18 MAR 1925	88	273.	*	19 MAR 0140	163	2.	*	19 MAR 0755	238	0.
18 MAR 1315	14	0.	*	18 MAR 1930	89	261.	*	19 MAR 0145	164	2.	*	19 MAR 0800	239	0.
18 MAR 1320	15	0.	*	18 MAR 1935	90	249.	*	19 MAR 0150	165	2.	*	19 MAR 0805	240	0.
18 MAR 1325	16	0.	*	18 MAR 1940	91	236.	*	19 MAR 0155	166	2.	*	19 MAR 0810	241	0.
18 MAR 1330	17	0.	*	18 MAR 1945	92	224.	*	19 MAR 0200	167	1.	*	19 MAR 0815	242	0.
18 MAR 1335	18	0.	*	18 MAR 1950	93	211.	*	19 MAR 0205	168	1.	*	19 MAR 0820	243	0.
18 MAR 1340	19	0.	*	18 MAR 1955	94	198.	*	19 MAR 0210	169	1.	*	19 MAR 0825	244	0.
18 MAR 1345	20	0.	*	18 MAR 2000	95	186.	*	19 MAR 0215	170	1.	*	19 MAR 0830	245	0.
18 MAR 1350	21	0.	*	18 MAR 2005	96	175.	*	19 MAR 0220	171	1.	*	19 MAR 0835	246	0.
18 MAR 1355	22	0.	*	18 MAR 2010	97	165.	*	19 MAR 0225	172	1.	*	19 MAR 0840	247	0.
18 MAR 1400	23	0.	*	18 MAR 2015	98	154.	*	19 MAR 0230	173	1.	*	19 MAR 0845	248	0.
18 MAR 1405	24	0.	*	18 MAR 2020	99	143.	*	19 MAR 0235	174	1.	*	19 MAR 0850	249	0.
18 MAR 1410	25	0.	*	18 MAR 2025	100	133.	*	19 MAR 0240	175	1.	*	19 MAR 0855	250	0.
18 MAR 1415	26	0.	*	18 MAR 2030	101	124.	*	19 MAR 0245	176	1.	*	19 MAR 0900	251	0.
18 MAR 1420	27	0.	*	18 MAR 2035	102	115.	*	19 MAR 0250	177	1.	*	19 MAR 0905	252	0.
18 MAR 1425	28	0.	*	18 MAR 2040	103	107.	*	19 MAR 0255	178	1.	*	19 MAR 0910	253	0.
18 MAR 1430	29	0.	*	18 MAR 2045	104	99.	*	19 MAR 0300	179	1.	*	19 MAR 0915	254	0.
18 MAR 1435	30	0.	*	18 MAR 2050	105	91.	*	19 MAR 0305	180	1.	*	19 MAR 0920	255	0.
18 MAR 1440	31	0.	*	18 MAR 2055	106	84.	*	19 MAR 0310	181	1.	*	19 MAR 0925	256	0.
18 MAR 1445	32	0.	*	18 MAR 2100	107	77.	*	19 MAR 0315	182	1.	*	19 MAR 0930	257	0.
18 MAR 1450	33	0.	*	18 MAR 2105	108	70.	*	19 MAR 0320	183	1.	*	19 MAR 0935	258	0.
18 MAR 1455	34	0.	*	18 MAR 2110	109	64.	*	19 MAR 0325	184	1.	*	19 MAR 0940	259	0.
18 MAR 1500	35	0.	*	18 MAR 2115	110	59.	*	19 MAR 0330	185	1.	*	19 MAR 0945	260	0.
18 MAR 1505	36	0.	*	18 MAR 2120	111	54.	*	19 MAR 0335	186	1.	*	19 MAR 0950	261	0.
18 MAR 1510	37	0.	*	18 MAR 2125	112	49.	*	19 MAR 0340	187	0.	*	19 MAR 0955	262	0.
18 MAR 1515	38	0.	*	18 MAR 2130	113	44.	*	19 MAR 0345	188	0.	*	19 MAR 1000	263	0.

18 MAR 1520	39	0.	*	18 MAR 2135	114	40.	*	19 MAR 0350	189	0.	*	19 MAR 1005	264	0.
18 MAR 1525	40	0.	*	18 MAR 2140	115	36.	*	19 MAR 0355	190	0.	*	19 MAR 1010	265	0.
18 MAR 1530	41	0.	*	18 MAR 2145	116	32.	*	19 MAR 0400	191	0.	*	19 MAR 1015	266	0.
18 MAR 1535	42	0.	*	18 MAR 2150	117	29.	*	19 MAR 0405	192	0.	*	19 MAR 1020	267	0.
18 MAR 1540	43	0.	*	18 MAR 2155	118	25.	*	19 MAR 0410	193	0.	*	19 MAR 1025	268	0.
18 MAR 1545	44	0.	*	18 MAR 2200	119	23.	*	19 MAR 0415	194	0.	*	19 MAR 1030	269	0.
18 MAR 1550	45	0.	*	18 MAR 2205	120	21.	*	19 MAR 0420	195	0.	*	19 MAR 1035	270	0.
18 MAR 1555	46	0.	*	18 MAR 2210	121	20.	*	19 MAR 0425	196	0.	*	19 MAR 1040	271	0.
18 MAR 1600	47	0.	*	18 MAR 2215	122	18.	*	19 MAR 0430	197	0.	*	19 MAR 1045	272	0.
18 MAR 1605	48	0.	*	18 MAR 2220	123	17.	*	19 MAR 0435	198	0.	*	19 MAR 1050	273	0.
18 MAR 1610	49	0.	*	18 MAR 2225	124	16.	*	19 MAR 0440	199	0.	*	19 MAR 1055	274	0.
18 MAR 1615	50	0.	*	18 MAR 2230	125	15.	*	19 MAR 0445	200	0.	*	19 MAR 1100	275	0.
18 MAR 1620	51	0.	*	18 MAR 2235	126	14.	*	19 MAR 0450	201	0.	*	19 MAR 1105	276	0.
18 MAR 1625	52	0.	*	18 MAR 2240	127	13.	*	19 MAR 0455	202	0.	*	19 MAR 1110	277	0.
18 MAR 1630	53	0.	*	18 MAR 2245	128	12.	*	19 MAR 0500	203	0.	*	19 MAR 1115	278	0.
18 MAR 1635	54	0.	*	18 MAR 2250	129	11.	*	19 MAR 0505	204	0.	*	19 MAR 1120	279	0.
18 MAR 1640	55	2.	*	18 MAR 2255	130	11.	*	19 MAR 0510	205	0.	*	19 MAR 1125	280	0.
18 MAR 1645	56	11.	*	18 MAR 2300	131	10.	*	19 MAR 0515	206	0.	*	19 MAR 1130	281	0.
18 MAR 1650	57	32.	*	18 MAR 2305	132	9.	*	19 MAR 0520	207	0.	*	19 MAR 1135	282	0.
18 MAR 1655	58	68.	*	18 MAR 2310	133	9.	*	19 MAR 0525	208	0.	*	19 MAR 1140	283	0.
18 MAR 1700	59	108.	*	18 MAR 2315	134	8.	*	19 MAR 0530	209	0.	*	19 MAR 1145	284	0.
18 MAR 1705	60	146.	*	18 MAR 2320	135	8.	*	19 MAR 0535	210	0.	*	19 MAR 1150	285	0.
18 MAR 1710	61	178.	*	18 MAR 2325	136	8.	*	19 MAR 0540	211	0.	*	19 MAR 1155	286	0.
18 MAR 1715	62	236.	*	18 MAR 2330	137	7.	*	19 MAR 0545	212	0.	*	19 MAR 1200	287	0.
18 MAR 1720	63	262.	*	18 MAR 2335	138	7.	*	19 MAR 0550	213	0.	*	19 MAR 1205	288	0.
18 MAR 1725	64	276.	*	18 MAR 2340	139	7.	*	19 MAR 0555	214	0.	*	19 MAR 1210	289	0.
18 MAR 1730	65	281.	*	18 MAR 2345	140	6.	*	19 MAR 0600	215	0.	*	19 MAR 1215	290	0.
18 MAR 1735	66	279.	*	18 MAR 2350	141	6.	*	19 MAR 0605	216	0.	*	19 MAR 1220	291	0.
18 MAR 1740	67	272.	*	18 MAR 2355	142	6.	*	19 MAR 0610	217	0.	*	19 MAR 1225	292	0.
18 MAR 1745	68	262.	*	19 MAR 0000	143	6.	*	19 MAR 0615	218	0.	*	19 MAR 1230	293	0.
18 MAR 1750	69	297.	*	19 MAR 0005	144	5.	*	19 MAR 0620	219	0.	*	19 MAR 1235	294	0.
18 MAR 1755	70	347.	*	19 MAR 0010	145	5.	*	19 MAR 0625	220	0.	*	19 MAR 1240	295	0.
18 MAR 1800	71	342.	*	19 MAR 0015	146	5.	*	19 MAR 0630	221	0.	*	19 MAR 1245	296	0.
18 MAR 1805	72	322.	*	19 MAR 0020	147	5.	*	19 MAR 0635	222	0.	*	19 MAR 1250	297	0.
18 MAR 1810	73	307.	*	19 MAR 0025	148	5.	*	19 MAR 0640	223	0.	*	19 MAR 1255	298	0.
18 MAR 1815	74	293.	*	19 MAR 0030	149	4.	*	19 MAR 0645	224	0.	*	19 MAR 1300	299	0.
18 MAR 1820	75	282.	*	19 MAR 0035	150	4.	*	19 MAR 0650	225	0.	*	19 MAR 1305	300	0.
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'EAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
(CFS)	(HR)					
		(CFS)				
347.	5.75		167.	43.	41.	41.
		(INCHES)	.020	.021	.021	.021
		(AC-FT)	83.	85.	85.	85.

CUMULATIVE AREA = 76.76 SQ MI

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HYDROGRAPH AT STATION REMF

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			*				*				*			
DA MON HRMN	ORD	FLOW	*	DA MON HRMN	ORD	FLOW	*	DA MON HRMN	ORD	FLOW	*	DA MON HRMN	ORD	FLOW

			*				*				*			
18 MAR 1210	1	0.	*	18 MAR 1825	76	541.	*	19 MAR 0040	151	60.	*	19 MAR 0655	226	7.
18 MAR 1215	2	0.	*	18 MAR 1830	77	537.	*	19 MAR 0045	152	59.	*	19 MAR 0700	227	7.
18 MAR 1220	3	0.	*	18 MAR 1835	78	541.	*	19 MAR 0050	153	58.	*	19 MAR 0705	228	7.
18 MAR 1225	4	0.	*	18 MAR 1840	79	550.	*	19 MAR 0055	154	56.	*	19 MAR 0710	229	7.
18 MAR 1230	5	0.	*	18 MAR 1845	80	564.	*	19 MAR 0100	155	55.	*	19 MAR 0715	230	6.
18 MAR 1235	6	0.	*	18 MAR 1850	81	577.	*	19 MAR 0105	156	54.	*	19 MAR 0720	231	6.
18 MAR 1240	7	0.	*	18 MAR 1855	82	588.	*	19 MAR 0110	157	53.	*	19 MAR 0725	232	6.
18 MAR 1245	8	0.	*	18 MAR 1900	83	593.	*	19 MAR 0115	158	51.	*	19 MAR 0730	233	6.
18 MAR 1250	9	0.	*	18 MAR 1905	84	592.	*	19 MAR 0120	159	50.	*	19 MAR 0735	234	6.
18 MAR 1255	10	0.	*	18 MAR 1910	85	584.	*	19 MAR 0125	160	49.	*	19 MAR 0740	235	6.
18 MAR 1300	11	0.	*	18 MAR 1915	86	572.	*	19 MAR 0130	161	48.	*	19 MAR 0745	236	5.
18 MAR 1305	12	0.	*	18 MAR 1920	87	556.	*	19 MAR 0135	162	46.	*	19 MAR 0750	237	5.
18 MAR 1310	13	0.	*	18 MAR 1925	88	538.	*	19 MAR 0140	163	45.	*	19 MAR 0755	238	5.
18 MAR 1315	14	0.	*	18 MAR 1930	89	518.	*	19 MAR 0145	164	44.	*	19 MAR 0800	239	5.
18 MAR 1320	15	0.	*	18 MAR 1935	90	499.	*	19 MAR 0150	165	43.	*	19 MAR 0805	240	5.
18 MAR 1325	16	0.	*	18 MAR 1940	91	479.	*	19 MAR 0155	166	42.	*	19 MAR 0810	241	5.
18 MAR 1330	17	0.	*	18 MAR 1945	92	458.	*	19 MAR 0200	167	41.	*	19 MAR 0815	242	5.
18 MAR 1335	18	0.	*	18 MAR 1950	93	437.	*	19 MAR 0205	168	40.	*	19 MAR 0820	243	5.
18 MAR 1340	19	0.	*	18 MAR 1955	94	417.	*	19 MAR 0210	169	39.	*	19 MAR 0825	244	5.
18 MAR 1345	20	0.	*	18 MAR 2000	95	397.	*	19 MAR 0215	170	38.	*	19 MAR 0830	245	5.
18 MAR 1350	21	0.	*	18 MAR 2005	96	380.	*	19 MAR 0220	171	37.	*	19 MAR 0835	246	4.
18 MAR 1355	22	0.	*	18 MAR 2010	97	362.	*	19 MAR 0225	172	37.	*	19 MAR 0840	247	4.
18 MAR 1400	23	0.	*	18 MAR 2015	98	345.	*	19 MAR 0230	173	36.	*	19 MAR 0845	248	4.
18 MAR 1405	24	0.	*	18 MAR 2020	99	328.	*	19 MAR 0235	174	35.	*	19 MAR 0850	249	4.
18 MAR 1410	25	0.	*	18 MAR 2025	100	311.	*	19 MAR 0240	175	34.	*	19 MAR 0855	250	4.
18 MAR 1415	26	0.	*	18 MAR 2030	101	296.	*	19 MAR 0245	176	34.	*	19 MAR 0900	251	4.
18 MAR 1420	27	0.	*	18 MAR 2035	102	283.	*	19 MAR 0250	177	33.	*	19 MAR 0905	252	4.
18 MAR 1425	28	0.	*	18 MAR 2040	103	271.	*	19 MAR 0255	178	32.	*	19 MAR 0910	253	3.
18 MAR 1430	29	0.	*	18 MAR 2045	104	259.	*	19 MAR 0300	179	32.	*	19 MAR 0915	254	3.
18 MAR 1435	30	1.	*	18 MAR 2050	105	247.	*	19 MAR 0305	180	31.	*	19 MAR 0920	255	3.
18 MAR 1440	31	1.	*	18 MAR 2055	106	236.	*	19 MAR 0310	181	30.	*	19 MAR 0925	256	3.
18 MAR 1445	32	1.	*	18 MAR 2100	107	225.	*	19 MAR 0315	182	29.	*	19 MAR 0930	257	3.
18 MAR 1450	33	1.	*	18 MAR 2105	108	216.	*	19 MAR 0320	183	29.	*	19 MAR 0935	258	2.
18 MAR 1455	34	1.	*	18 MAR 2110	109	207.	*	19 MAR 0325	184	28.	*	19 MAR 0940	259	2.
18 MAR 1500	35	1.	*	18 MAR 2115	110	199.	*	19 MAR 0330	185	28.	*	19 MAR 0945	260	2.
18 MAR 1505	36	1.	*	18 MAR 2120	111	191.	*	19 MAR 0335	186	27.	*	19 MAR 0950	261	2.
18 MAR 1510	37	1.	*	18 MAR 2125	112	184.	*	19 MAR 0340	187	26.	*	19 MAR 0955	262	2.
18 MAR 1515	38	2.	*	18 MAR 2130	113	177.	*	19 MAR 0345	188	25.	*	19 MAR 1000	263	2.
18 MAR 1520	39	2.	*	18 MAR 2135	114	170.	*	19 MAR 0350	189	25.	*	19 MAR 1005	264	1.
18 MAR 1525	40	2.	*	18 MAR 2140	115	163.	*	19 MAR 0355	190	24.	*	19 MAR 1010	265	1.
18 MAR 1530	41	2.	*	18 MAR 2145	116	157.	*	19 MAR 0400	191	23.	*	19 MAR 1015	266	1.
18 MAR 1535	42	2.	*	18 MAR 2150	117	152.	*	19 MAR 0405	192	22.	*	19 MAR 1020	267	1.
18 MAR 1540	43	2.	*	18 MAR 2155	118	147.	*	19 MAR 0410	193	22.	*	19 MAR 1025	268	1.
18 MAR 1545	44	2.	*	18 MAR 2200	119	141.	*	19 MAR 0415	194	21.	*	19 MAR 1030	269	1.
18 MAR 1550	45	2.	*	18 MAR 2205	120	135.	*	19 MAR 0420	195	20.	*	19 MAR 1035	270	1.
18 MAR 1555	46	2.	*	18 MAR 2210	121	131.	*	19 MAR 0425	196	19.	*	19 MAR 1040	271	1.
18 MAR 1600	47	2.	*	18 MAR 2215	122	126.	*	19 MAR 0430	197	19.	*	19 MAR 1045	272	1.
18 MAR 1605	48	3.	*	18 MAR 2220	123	121.	*	19 MAR 0435	198	18.	*	19 MAR 1050	273	1.
18 MAR 1610	49	3.	*	18 MAR 2225	124	117.	*	19 MAR 0440	199	18.	*	19 MAR 1055	274	1.
18 MAR 1615	50	3.	*	18 MAR 2230	125	113.	*	19 MAR 0445	200	17.	*	19 MAR 1100	275	1.
18 MAR 1620	51	4.	*	18 MAR 2235	126	109.	*	19 MAR 0450	201	17.	*	19 MAR 1105	276	1.
18 MAR 1625	52	6.	*	18 MAR 2240	127	106.	*	19 MAR 0455	202	16.	*	19 MAR 1110	277	1.
18 MAR 1630	53	11.	*	18 MAR 2245	128	103.	*	19 MAR 0500	203	16.	*	19 MAR 1115	278	1.
18 MAR 1635	54	24.	*	18 MAR 2250	129	100.	*	19 MAR 0505	204	15.	*	19 MAR 1120	279	1.
18 MAR 1640	55	51.	*	18 MAR 2255	130	98.	*	19 MAR 0510	205	15.	*	19 MAR 1125	280	0.
18 MAR 1645	56	98.	*	18 MAR 2300	131	95.	*	19 MAR 0515	206	15.	*	19 MAR 1130	281	0.
18 MAR 1650	57	157.	*	18 MAR 2305	132	92.	*	19 MAR 0520	207	14.	*	19 MAR 1135	282	0.

18 MAR 1655	58	213.	*	18 MAR 2310	133	90.	*	19 MAR 0525	208	14.	*	19 MAR 1140	283	0.
18 MAR 1700	59	272.	*	18 MAR 2315	134	88.	*	19 MAR 0530	209	13.	*	19 MAR 1145	284	0.
18 MAR 1705	60	332.	*	18 MAR 2320	135	85.	*	19 MAR 0535	210	13.	*	19 MAR 1150	285	0.
18 MAR 1710	61	384.	*	18 MAR 2325	136	83.	*	19 MAR 0540	211	13.	*	19 MAR 1155	286	0.
18 MAR 1715	62	478.	*	18 MAR 2330	137	81.	*	19 MAR 0545	212	12.	*	19 MAR 1200	287	0.
18 MAR 1720	63	520.	*	18 MAR 2335	138	79.	*	19 MAR 0550	213	12.	*	19 MAR 1205	288	0.
18 MAR 1725	64	542.	*	18 MAR 2340	139	77.	*	19 MAR 0555	214	11.	*	19 MAR 1210	289	0.
18 MAR 1730	65	551.	*	18 MAR 2345	140	76.	*	19 MAR 0600	215	11.	*	19 MAR 1215	290	0.
18 MAR 1735	66	548.	*	18 MAR 2350	141	74.	*	19 MAR 0605	216	11.	*	19 MAR 1220	291	0.
18 MAR 1740	67	536.	*	18 MAR 2355	142	73.	*	19 MAR 0610	217	10.	*	19 MAR 1225	292	0.
18 MAR 1745	68	520.	*	19 MAR 0000	143	71.	*	19 MAR 0615	218	10.	*	19 MAR 1230	293	0.
18 MAR 1750	69	577.	*	19 MAR 0005	144	69.	*	19 MAR 0620	219	9.	*	19 MAR 1235	294	0.
18 MAR 1755	70	658.	*	19 MAR 0010	145	68.	*	19 MAR 0625	220	9.	*	19 MAR 1240	295	0.
18 MAR 1800	71	649.	*	19 MAR 0015	146	67.	*	19 MAR 0630	221	9.	*	19 MAR 1245	296	0.
18 MAR 1805	72	617.	*	19 MAR 0020	147	65.	*	19 MAR 0635	222	8.	*	19 MAR 1250	297	0.
18 MAR 1810	73	593.	*	19 MAR 0025	148	64.	*	19 MAR 0640	223	8.	*	19 MAR 1255	298	0.
18 MAR 1815	74	570.	*	19 MAR 0030	149	63.	*	19 MAR 0645	224	8.	*	19 MAR 1300	299	0.
18 MAR 1820	75	552.	*	19 MAR 0035	150	62.	*	19 MAR 0650	225	8.	*	19 MAR 1305	300	0.
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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
658.	5.75		368.	107.	103.	103.
		(INCHES)	.045	.052	.052	.052
		(AC-FT)	183.	212.	212.	212.

CUMULATIVE AREA = 76.76 SQ MI

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          *            *
 82 KK    *    RTEF2   *     G
          *            *
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ROUTE COMBINED HYDROGRAPH TO SUB BASIN G

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188 KO        OUTPUT CONTROL VARIABLES
                    IPRNT          2  PRINT CONTROL
                    IPLOT          0  PLOT CONTROL
                    QSCAL         0.  HYDROGRAPH PLOT SCALE

            HYDROGRAPH ROUTING DATA

184 RS        STORAGE ROUTING
                    NSTPS          2  NUMBER OF SUBREACHES
                     ITYP       FLOW  TYPE OF INITIAL CONDITION
                   RSVRIC        .00  INITIAL CONDITION
                        X        .00 WORKING R AND D COEFFICIENT

185 RC        NORMAL DEPTH CHANNEL
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ANL	.025	LEFT OVERBANK N-VALUE
ANCH	.015	MAIN CHANNEL N-VALUE
ANR	.025	RIGHT OVERBANK N-VALUE
RLNTH	4200.	REACH LENGTH
SEL	.0026	ENERGY SLOPE
ELMAX	103.8	MAX. ELEV. FOR STORAGE/OUTFLOW CALCULATION

CROSS-SECTION DATA

		--- LEFT OVERBANK ---		+ ------ MAIN CHANNEL		------- +	--- RIGHT OVERBANK ---		
187 RY	ELEVATION	103.00	101.00	100.00	102.00	101.00	101.88	102.76	103.76
186 RX	DISTANCE	100.00	150.00	152.00	156.00	158.00	202.00	246.00	248.00

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COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

STORAGE	.00	.01	.03	.07	.12	.19	.40	.91	1.71	2.82
OUTFLOW	.00	.06	.40	1.18	2.54	4.61	6.10	16.57	37.91	73.14
ELEVATION	100.00	100.20	100.40	100.59	100.79	100.99	101.19	101.39	101.58	101.78
STORAGE	4.22	5.92	7.89	10.15	12.70	15.43	18.22	21.03	23.84	26.66
OUTFLOW	129.82	211.24	313.24	436.81	583.32	757.81	964.16	1193.86	1444.12	1714.13
ELEVATION	101.98	102.18	102.37	102.57	102.77	102.97	103.17	103.36	103.56	103.76

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HYDROGRAPH AT STATION RTEF2

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DA MON HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA MON HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA MON HRMN	ORD	OUTFLOW	STORAGE	STAGE
18 MAR 1210	1	0.	.0	100.0	*	18 MAR 2030	101	340.	4.2	102.4	*	19 MAR 0450	201	20.	.5	101.4
18 MAR 1215	2	0.	.0	100.0	*	18 MAR 2035	102	323.	4.0	102.4	*	19 MAR 0455	202	19.	.5	101.4
18 MAR 1220	3	0.	.0	100.0	*	18 MAR 2040	103	309.	3.9	102.4	*	19 MAR 0500	203	19.	.5	101.4
18 MAR 1225	4	0.	.0	100.0	*	18 MAR 2045	104	295.	3.8	102.3	*	19 MAR 0505	204	18.	.5	101.4
18 MAR 1230	5	0.	.0	100.0	*	18 MAR 2050	105	282.	3.6	102.3	*	19 MAR 0510	205	18.	.5	101.4
18 MAR 1235	6	0.	.0	100.0	*	18 MAR 2055	106	269.	3.5	102.3	*	19 MAR 0515	206	17.	.5	101.4
18 MAR 1240	7	0.	.0	100.0	*	18 MAR 2100	107	257.	3.4	102.3	*	19 MAR 0520	207	17.	.5	101.4
18 MAR 1245	8	0.	.0	100.0	*	18 MAR 2105	108	246.	3.3	102.2	*	19 MAR 0525	208	16.	.4	101.4
18 MAR 1250	9	0.	.0	100.0	*	18 MAR 2110	109	235.	3.2	102.2	*	19 MAR 0530	209	16.	.4	101.4
18 MAR 1255	10	0.	.0	100.0	*	18 MAR 2115	110	225.	3.1	102.2	*	19 MAR 0535	210	16.	.4	101.4
18 MAR 1300	11	0.	.0	100.0	*	18 MAR 2120	111	216.	3.0	102.2	*	19 MAR 0540	211	15.	.4	101.4
18 MAR 1305	12	0.	.0	100.0	*	18 MAR 2125	112	207.	2.9	102.2	*	19 MAR 0545	212	15.	.4	101.4
18 MAR 1310	13	0.	.0	100.0	*	18 MAR 2130	113	199.	2.8	102.1	*	19 MAR 0550	213	15.	.4	101.3
18 MAR 1315	14	0.	.0	100.0	*	18 MAR 2135	114	192.	2.8	102.1	*	19 MAR 0555	214	14.	.4	101.3
18 MAR 1320	15	0.	.0	100.0	*	18 MAR 2140	115	184.	2.7	102.1	*	19 MAR 0600	215	14.	.4	101.3
18 MAR 1325	16	0.	.0	100.0	*	18 MAR 2145	116	177.	2.6	102.1	*	19 MAR 0605	216	13.	.4	101.3
18 MAR 1330	17	0.	.0	100.0	*	18 MAR 2150	117	171.	2.5	102.1	*	19 MAR 0610	217	13.	.4	101.3
18 MAR 1335	18	0.	.0	100.0	*	18 MAR 2155	118	164.	2.5	102.1	*	19 MAR 0615	218	13.	.4	101.3
18 MAR 1340	19	0.	.0	100.0	*	18 MAR 2200	119	158.	2.4	102.0	*	19 MAR 0620	219	12.	.3	101.3
18 MAR 1345	20	0.	.0	100.0	*	18 MAR 2205	120	153.	2.3	102.0	*	19 MAR 0625	220	12.	.3	101.3
18 MAR 1350	21	0.	.0	100.0	*	18 MAR 2210	121	147.	2.3	102.0	*	19 MAR 0630	221	11.	.3	101.3
18 MAR 1355	22	0.	.0	100.0	*	18 MAR 2215	122	141.	2.2	102.0	*	19 MAR 0635	222	11.	.3	101.3
18 MAR 1400	23	0.	.0	100.0	*	18 MAR 2220	123	136.	2.2	102.0	*	19 MAR 0640	223	11.	.3	101.3
18 MAR 1405	24	0.	.0	100.0	*	18 MAR 2225	124	131.	2.1	102.0	*	19 MAR 0645	224	10.	.3	101.3
18 MAR 1410	25	0.	.0	100.0	*	18 MAR 2230	125	127.	2.1	102.0	*	19 MAR 0650	225	10.	.3	101.3

18 MAR	1415	26	0.	.0	100.0	*	18 MAR	2235	126	123.	2.0	102.0	*	19 MAR	0655	226	10.	.3	101.3
18 MAR	1420	27	0.	.0	100.0	*	18 MAR	2240	127	120.	2.0	101.9	*	19 MAR	0700	227	9.	.3	101.2
18 MAR	1425	28	0.	.0	100.0	*	18 MAR	2245	128	116.	1.9	101.9	*	19 MAR	0705	228	9.	.3	101.2
18 MAR	1430	29	0.	.0	100.1	*	18 MAR	2250	129	112.	1.9	101.9	*	19 MAR	0710	229	9.	.3	101.2
18 MAR	1435	30	0.	.0	100.1	*	18 MAR	2255	130	109.	1.8	101.9	*	19 MAR	0715	230	8.	.3	101.2
18 MAR	1440	31	0.	.0	100.2	*	18 MAR	2300	131	106.	1.8	101.9	*	19 MAR	0720	231	8.	.2	101.2
18 MAR	1445	32	0.	.0	100.2	*	18 MAR	2305	132	102.	1.8	101.9	*	19 MAR	0725	232	8.	.2	101.2
18 MAR	1450	33	0.	.0	100.3	*	18 MAR	2310	133	100.	1.7	101.9	*	19 MAR	0730	233	7.	.2	101.2
18 MAR	1455	34	0.	.0	100.3	*	18 MAR	2315	134	97.	1.7	101.9	*	19 MAR	0735	234	7.	.2	101.2
18 MAR	1500	35	0.	.0	100.4	*	18 MAR	2320	135	94.	1.7	101.9	*	19 MAR	0740	235	7.	.2	101.2
18 MAR	1505	36	0.	.0	100.4	*	18 MAR	2325	136	92.	1.6	101.8	*	19 MAR	0745	236	7.	.2	101.2
18 MAR	1510	37	1.	.0	100.4	*	18 MAR	2330	137	89.	1.6	101.8	*	19 MAR	0750	237	7.	.2	101.2
18 MAR	1515	38	1.	.0	100.5	*	18 MAR	2335	138	87.	1.6	101.8	*	19 MAR	0755	238	6.	.2	101.2
18 MAR	1520	39	1.	.0	100.5	*	18 MAR	2340	139	85.	1.6	101.8	*	19 MAR	0800	239	6.	.2	101.2
18 MAR	1525	40	1.	.0	100.5	*	18 MAR	2345	140	83.	1.5	101.8	*	19 MAR	0805	240	6.	.2	101.2
18 MAR	1530	41	1.	.0	100.6	*	18 MAR	2350	141	81.	1.5	101.8	*	19 MAR	0810	241	6.	.2	101.2
18 MAR	1535	42	1.	.0	100.6	*	18 MAR	2355	142	79.	1.5	101.8	*	19 MAR	0815	242	6.	.2	101.2
18 MAR	1540	43	1.	.0	100.6	*	19 MAR	0000	143	77.	1.5	101.8	*	19 MAR	0820	243	6.	.2	101.2
18 MAR	1545	44	1.	.0	100.6	*	19 MAR	0005	144	75.	1.4	101.8	*	19 MAR	0825	244	6.	.2	101.2
18 MAR	1550	45	2.	.0	100.6	*	19 MAR	0010	145	74.	1.4	101.8	*	19 MAR	0830	245	6.	.2	101.2
18 MAR	1555	46	2.	.0	100.7	*	19 MAR	0015	146	72.	1.4	101.8	*	19 MAR	0835	246	6.	.2	101.2
18 MAR	1600	47	2.	.0	100.7	*	19 MAR	0020	147	71.	1.4	101.8	*	19 MAR	0840	247	6.	.2	101.2
18 MAR	1605	48	2.	.0	100.7	*	19 MAR	0025	148	70.	1.4	101.8	*	19 MAR	0845	248	6.	.2	101.1
18 MAR	1610	49	2.	.0	100.7	*	19 MAR	0030	149	69.	1.3	101.8	*	19 MAR	0850	249	6.	.2	101.1
18 MAR	1615	50	2.	.1	100.7	*	19 MAR	0035	150	67.	1.3	101.7	*	19 MAR	0855	250	6.	.2	101.1
18 MAR	1620	51	2.	.1	100.8	*	19 MAR	0040	151	66.	1.3	101.7	*	19 MAR	0900	251	6.	.2	101.1
18 MAR	1625	52	3.	.1	100.8	*	19 MAR	0045	152	65.	1.3	101.7	*	19 MAR	0905	252	6.	.2	101.1
18 MAR	1630	53	3.	.1	100.8	*	19 MAR	0050	153	64.	1.3	101.7	*	19 MAR	0910	253	5.	.2	101.1
18 MAR	1635	54	4.	.1	100.9	*	19 MAR	0055	154	62.	1.2	101.7	*	19 MAR	0915	254	5.	.1	101.1
18 MAR	1640	55	5.	.1	101.0	*	19 MAR	0100	155	61.	1.2	101.7	*	19 MAR	0920	255	5.	.1	101.1
18 MAR	1645	56	8.	.2	101.2	*	19 MAR	0105	156	60.	1.2	101.7	*	19 MAR	0925	256	5.	.1	101.1
18 MAR	1650	57	18.	.5	101.4	*	19 MAR	0110	157	58.	1.2	101.7	*	19 MAR	0930	257	5.	.1	101.0
18 MAR	1655	58	41.	.9	101.6	*	19 MAR	0115	158	57.	1.2	101.7	*	19 MAR	0935	258	5.	.1	101.0
18 MAR	1700	59	80.	1.5	101.8	*	19 MAR	0120	159	56.	1.1	101.7	*	19 MAR	0940	259	5.	.1	101.0
18 MAR	1705	60	137.	2.2	102.0	*	19 MAR	0125	160	55.	1.1	101.7	*	19 MAR	0945	260	4.	.1	100.9
18 MAR	1710	61	204.	2.9	102.2	*	19 MAR	0130	161	53.	1.1	101.7	*	19 MAR	0950	261	3.	.1	100.9
18 MAR	1715	62	273.	3.6	102.3	*	19 MAR	0135	162	52.	1.1	101.7	*	19 MAR	0955	262	3.	.1	100.8
18 MAR	1720	63	345.	4.2	102.4	*	19 MAR	0140	163	51.	1.1	101.7	*	19 MAR	1000	263	3.	.1	100.8
18 MAR	1725	64	412.	4.8	102.5	*	19 MAR	0145	164	50.	1.0	101.6	*	19 MAR	1005	264	2.	.1	100.8
18 MAR	1730	65	465.	5.3	102.6	*	19 MAR	0150	165	48.	1.0	101.6	*	19 MAR	1010	265	2.	.1	100.7
18 MAR	1735	66	502.	5.6	102.7	*	19 MAR	0155	166	47.	1.0	101.6	*	19 MAR	1015	266	2.	.0	100.7
18 MAR	1740	67	523.	5.8	102.7	*	19 MAR	0200	167	46.	1.0	101.6	*	19 MAR	1020	267	2.	.0	100.7
18 MAR	1745	68	531.	5.9	102.7	*	19 MAR	0205	168	45.	1.0	101.6	*	19 MAR	1025	268	2.	.0	100.7
18 MAR	1750	69	535.	5.9	102.7	*	19 MAR	0210	169	43.	.9	101.6	*	19 MAR	1030	269	1.	.0	100.6
18 MAR	1755	70	551.	6.1	102.7	*	19 MAR	0215	170	42.	.9	101.6	*	19 MAR	1035	270	1.	.0	100.6
18 MAR	1800	71	582.	6.3	102.8	*	19 MAR	0220	171	41.	.9	101.6	*	19 MAR	1040	271	1.	.0	100.6
18 MAR	1805	72	611.	6.6	102.8	*	19 MAR	0225	172	41.	.9	101.6	*	19 MAR	1045	272	1.	.0	100.6
18 MAR	1810	73	618.	6.6	102.8	*	19 MAR	0230	173	40.	.9	101.6	*	19 MAR	1050	273	1.	.0	100.6
18 MAR	1815	74	610.	6.6	102.8	*	19 MAR	0235	174	39.	.9	101.6	*	19 MAR	1055	274	1.	.0	100.5
18 MAR	1820	75	594.	6.4	102.8	*	19 MAR	0240	175	38.	.9	101.6	*	19 MAR	1100	275	1.	.0	100.5
18 MAR	1825	76	578.	6.3	102.8	*	19 MAR	0245	176	37.	.8	101.6	*	19 MAR	1105	276	1.	.0	100.5
18 MAR	1830	77	564.	6.2	102.7	*	19 MAR	0250	177	37.	.8	101.6	*	19 MAR	1110	277	1.	.0	100.5
18 MAR	1835	78	553.	6.1	102.7	*	19 MAR	0255	178	36.	.8	101.6	*	19 MAR	1115	278	1.	.0	100.5
18 MAR	1840	79	548.	6.0	102.7	*	19 MAR	0300	179	35.	.8	101.6	*	19 MAR	1120	279	1.	.0	100.5
18 MAR	1845	80	548.	6.0	102.7	*	19 MAR	0305	180	35.	.8	101.6	*	19 MAR	1125	280	1.	.0	100.5
18 MAR	1850	81	553.	6.1	102.7	*	19 MAR	0310	181	34.	.8	101.5	*	19 MAR	1130	281	1.	.0	100.5
18 MAR	1855	82	562.	6.2	102.7	*	19 MAR	0315	182	33.	.8	101.5	*	19 MAR	1135	282	1.	.0	100.5
18 MAR	1900	83	571.	6.2	102.8	*	19 MAR	0320	183	33.	.8	101.5	*	19 MAR	1140	283	1.	.0	100.4

18 MAR 1905	84	580.	6.3	102.8	*	19 MAR 0325	184	32.	.7	101.5	*	19 MAR 1145	284	1.	.0	100.4
18 MAR 1910	85	585.	6.4	102.8	*	19 MAR 0330	185	31.	.7	101.5	*	19 MAR 1150	285	1.	.0	100.4
18 MAR 1915	86	585.	6.4	102.8	*	19 MAR 0335	186	31.	.7	101.5	*	19 MAR 1155	286	1.	.0	100.4
18 MAR 1920	87	580.	6.3	102.8	*	19 MAR 0340	187	30.	.7	101.5	*	19 MAR 1200	287	1.	.0	100.4
18 MAR 1925	88	572.	6.2	102.8	*	19 MAR 0345	188	29.	.7	101.5	*	19 MAR 1205	288	1.	.0	100.4
18 MAR 1930	89	559.	6.1	102.7	*	19 MAR 0350	189	29.	.7	101.5	*	19 MAR 1210	289	0.	.0	100.4
18 MAR 1935	90	543.	6.0	102.7	*	19 MAR 0355	190	28.	.7	101.5	*	19 MAR 1215	290	0.	.0	100.4
18 MAR 1940	91	526.	5.9	102.7	*	19 MAR 0400	191	27.	.7	101.5	*	19 MAR 1220	291	0.	.0	100.4
18 MAR 1945	92	508.	5.7	102.7	*	19 MAR 0405	192	26.	.6	101.5	*	19 MAR 1225	292	0.	.0	100.4
18 MAR 1950	93	488.	5.5	102.6	*	19 MAR 0410	193	26.	.6	101.5	*	19 MAR 1230	293	0.	.0	100.4
18 MAR 1955	94	468.	5.3	102.6	*	19 MAR 0415	194	25.	.6	101.5	*	19 MAR 1235	294	0.	.0	100.4
18 MAR 2000	95	448.	5.2	102.6	*	19 MAR 0420	195	24.	.6	101.5	*	19 MAR 1240	295	0.	.0	100.4
18 MAR 2005	96	429.	5.0	102.6	*	19 MAR 0425	196	23.	.6	101.4	*	19 MAR 1245	296	0.	.0	100.4
18 MAR 2010	97	410.	4.8	102.5	*	19 MAR 0430	197	23.	.6	101.4	*	19 MAR 1250	297	0.	.0	100.4
18 MAR 2015	98	392.	4.7	102.5	*	19 MAR 0435	198	22.	.6	101.4	*	19 MAR 1255	298	0.	.0	100.4
18 MAR 2020	99	374.	4.5	102.5	*	19 MAR 0440	199	21.	.5	101.4	*	19 MAR 1300	299	0.	.0	100.4
18 MAR 2025	100	357.	4.3	102.4	*	19 MAR 0445	200	21.	.5	101.4	*	19 MAR 1305	300	0.	.0	100.4
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PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
		(CFS)				
618.	6.00		366.	107.	103.	103.
		(INCHES)	.044	.052	.052	.052
		(AC-FT)	181.	212.	212.	212.

PEAK STORAGE (AC-FT)	TIME (HR)	MAXIMUM AVERAGE STORAGE 6-HR	24-HR	72-HR	24.92-HR
7.	6.00	4.	1.	1.	1.

PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	24.92-HR
102.81	6.00	102.42	101.40	101.35	101.35

CUMULATIVE AREA = 76.76 SQ MI

RUNOFF SUMMARY
FLOW IN CUBIC FEET PER SECOND
TIME IN HOURS, AREA IN SQUARE MILES

OPERATION	STATION	PEAK FLOW	TIME OF PEAK	AVERAGE FLOW FOR MAXIMUM PERIOD 6-HOUR	24-HOUR	72-HOUR	BASIN AREA	MAXIMUM STAGE	TIME OF MAX STAGE
HYDROGRAPH AT	RES29S	555.	6.42	223.	62.	59.	74.02		
HYDROGRAPH AT	DEVEL	234.	4.42	58.	15.	14.	.25		
2 COMBINED AT	COMBI	574.	6.42	257.	76.	74.	74.27		
ROUTED TO	ROUTE	564.	6.58	255.	76.	74.	74.27	103.51	6.58
HYDROGRAPH AT	RES32E	188.	5.25	64.	16.	15.	.25		
HYDROGRAPH AT	B	150.	5.17	45.	11.	11.	.32		
2 COMBINED AT	RIDB	336.	5.25	109.	27.	26.	.57		
2 COMBINED AT	AB	713.	6.50	364.	104.	100.	74.84		
ROUTED TO	RTEAB	701.	6.67	362.	104.	100.	74.84	103.80	6.67
HYDROGRAPH AT	C	360.	4.75	78.	20.	19.	.45		
2 COMBINED AT	ABC	775.	5.08	435.	123.	119.	75.29		
ROUTED TO	RTEAB	753.	5.33	432.	123.	119.	75.29	103.42	5.33
HYDROGRAPH AT	D	388.	5.25	136.	35.	34.	.69		
ROUTED TO	RTED	334.	5.75	70.	17.	17.	.69	104.11	5.75
2 COMBINED AT	ABCD	962.	5.75	501.	141.	135.	75.98		

ROUTED TO									
	RTEAB	940.	5.75	501.	141.	135.	75.98		
								103.43	5.75
HYDROGRAPH AT									
	E	340.	4.75	108.	28.	27.	.57		
ROUTED TO									
	RTEE	300.	5.33	47.	12.	11.	.57		
								104.10	5.33
DIVERSION TO									
	DVRTE	192.	5.33	33.	8.	8.	.57		
HYDROGRAPH AT									
	REME	108.	5.33	15.	4.	4.	.57		
ROUTED TO									
	RTEE2	51.	6.42	15.	4.	4.	.57		
								101.62	6.42
HYDROGRAPH AT									
	F	101.	4.75	34.	9.	8.	.20		
ROUTED TO									
	RTEF	89.	5.17	20.	5.	5.	.20		
								104.36	5.17
3 COMBINED AT									
	COMBI	1006.	5.75	536.	149.	144.	76.76		
DIVERSION TO									
	DIVF	347.	5.75	167.	43.	41.	76.76		
HYDROGRAPH AT									
	REMF	658.	5.75	368.	107.	103.	76.76		
ROUTED TO									
	RTEF2	618.	6.00	366.	107.	103.	76.76		
								102.81	6.00

*** NORMAL END OF HEC-1 ***

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-----DSS---ZCLOSE Unit:  71,   File: C:®HEC1®REVAV®MODEL_8.DSS
          Pointer Utilization:   .25
          Number of Records:      6
          File Size:     19.5  Kbytes
          Percent Inactive:   .00
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Flood Control District of Maricopa County
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FAX: (602) 506-4601
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July 2, 1998

MEMO TO: Marilyn DeRosa, Environmental Program Manager

FROM: Kathryn Gross, Hydrologist

SUBJECT: Existing Condition Off-site Hydrology Report for the Wetlands of Avondale Ground Water Recharge Facility June 1998 submittal

I have completed the review of the June 1998 submittal of the Avondale Wetlands Off-site Hydrology report. The DISTRICT's comments from March 10, 1998 have been addressed. I have no objections with the overall project concept or the hydrologic modeling. The hydrology and HEC-1 modeling appear correct. Therefore, the modeling and hydrology are accepted.

I have no further comments.

SCALE 1" = 400'
N
SUB BASIN E DIVERT
Q10 = 0 cfs
Q100 = 192 cfs
SUB AREA E
0.512 mi²
184 cfs
340 cfs
184 cfs
340 cfs
SUB AREA A
0.253 mi²
119 cfs
234 cfs
119 cfs
574 cfs
ROOSEVELT IRRIGATION DISTRICT CANAL
SUB AREA B
0.319 mi²
62 cfs
150 cfs
112 cfs
713 cfs
SUB AREA G
0.74 mi²
Q10 = 410 cfs
Q100 = 488 cfs
McDOWELL ROAD OVERFLOW
Q10 = 193 cfs
Q100 = 618 cfs
NOTE: ALL WATER FROM SUBAREA F FLOWS SOUTH OUT OF McDOWELL ROAD INTO PHASE 4 AREA SEE PLATE 12 FOR CROSS SECTION
Q10 = 203 cfs
Q100 = 658 cfs
SUB AREA F
0.201 mi²
49 cfs
101 cfs
262 cfs
1006 cfs
Q10 = 161 cfs
Q100 = 341 cfs
SUB AREA D
0.688 mi
217 cfs
328 cfs
266 cfs
962 cfs
SUB AREA C
0.450 mi²
138 cfs
360 cfs
282 cfs
775 cfs
INDIAN SCHOOL ROAD
ENCANTO
MCDOWELL
GRAND CANAL
PAPAGO
FREEWAY
AVONDALE WETLANDS
HYDROLOGY MAP
LEGEND:
- DESIGNATION
- AREA
- SUBAREA Q10
- SUBAREA Q100
- TOTAL Q10
- TOTAL Q100
SUB AREA BOUNDARY
SOIL TYPE BOUNDARY
SOIL TYPE DESIGNATION